

87-81 - 15578



REPORT ON
PHASES I, II AND III
GEOLOGY, GEOCHEMISTRY, GEOPHYSICS
AND DIAMOND DRILLING
ON THE

MIKE PROPERTY 3/88

VICTORIA MINING DIVISION, B.C.,
NTS M92C/16E 49°~~54~~⁵⁵' N LAT. 124°05.6E LONG
551' FOR

Owner/Operator: INTERNATIONAL CHEROKEE DEVELOPMENTS LTD.
FEB. 27, 1987
GORDON J. ALLEN, P. GEOL.

PART 1 OF 2

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PART 1 OF 2
GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,578



SUMMARY

Phases I, II and III of the exploration program on the Mike property have been completed.

The area is underlain by Paleozoic Sicker Group sediments and pyroclastics which have been folded along a NW trending axis and intruded by Triassic gabbro and Jurassic Island Intrusive quartz diorites.

Interest in the area was initiated by the discovery (Noranda, 1982) of small amounts of placer gold in Ridgeway Creek. Limited exploration programs were consequently conducted but the ground was eventually dropped in 1985.

In this most recent exploration program the property was prospected and mapped at scales of 1:10,000 and 1:2,500, and small soil geochemistry, magnetic and VLF-EM surveys conducted. Three showings were subsequently trenched and 353m of diamond drilling completed.

Au mineralization discovered on the property to date occurs in east - west trending quartz veins hosted in siliceous siltstones along the flanks of a flat lying gabbroic dyke. These veins are composed of vuggy blue-gray quartz with up to 5% pyrite, 1-2% chalcopyrite and traces of arsenopyrite. Au values from surface samples ranged up to 60.0 g/t (1.75 oz/ton) across a width of 7cm. Quartz veins intersected in the drilling were up to 1m wide. Veins with the best values, however, were more typically 5-15cm in width. Au values from drill core ranged up to 5.17 g/t (0.16 oz/ton) across a true vein width of 8cm.

Phase IV of the exploration program is recommended at an approximate cost of \$53,000. It will be designed to attempt to



identify larger Au bearing structures. Work will include geological mapping, soil geochemistry, magnetic and possibly VLF-EM surveys.

Depending on the results of phase IV of the program, drilling may be proposed.



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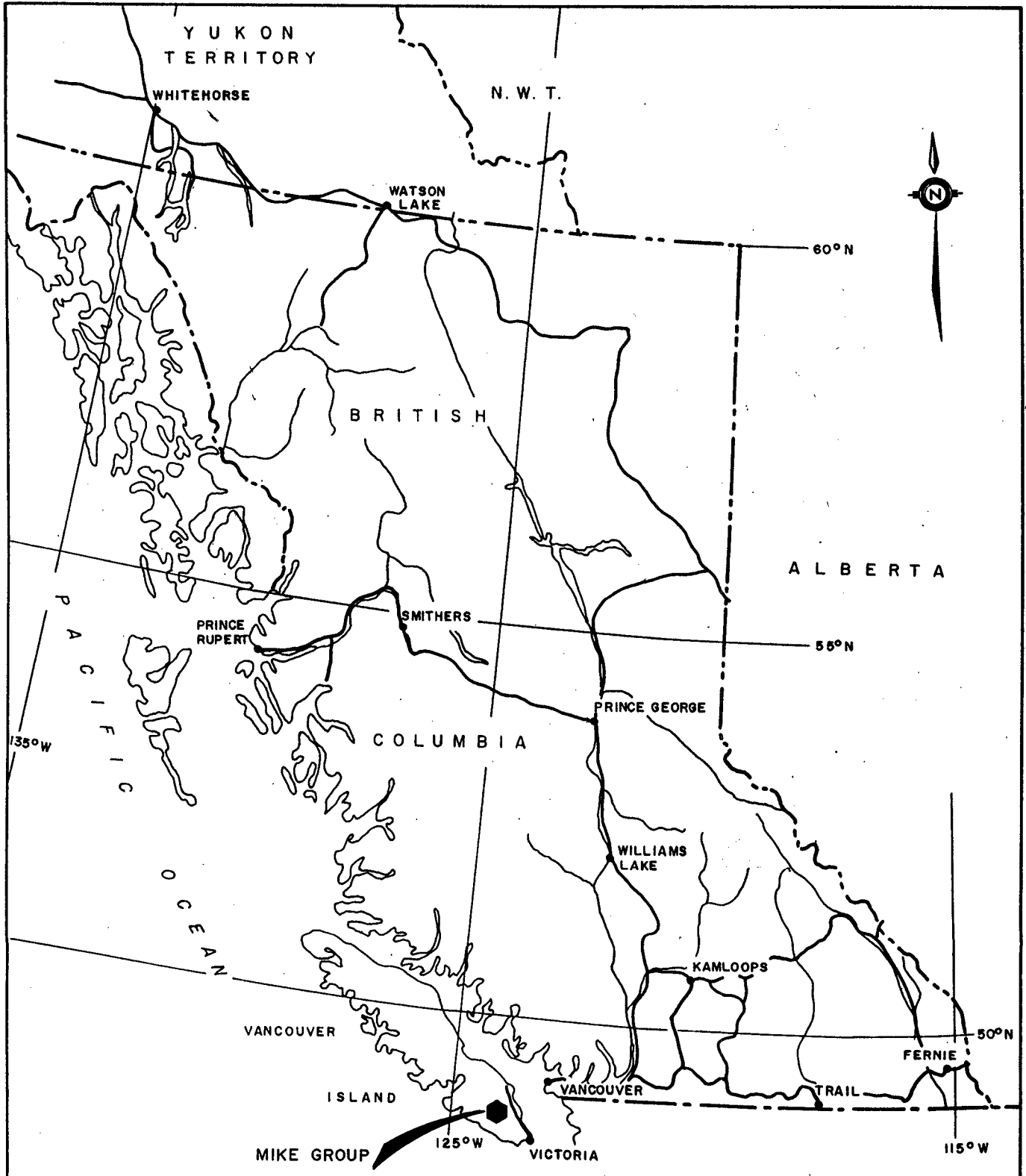



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INTERNATIONAL CHEROKEE DEVELOPMENTS LTD.	
GENERAL LOCATION MAP MIKE GROUP VICTORIA MINING DIVISION	
Project No. V 239	By: G. A.
Scale: 1 : 8 000 000	Drawn: J. S.
Drawing No: 1	Date: JAN. 1987
 MPH Consulting Limited	



1.0 INTRODUCTION

This report on the Mike Group (Mike 1-4 claims) has been prepared by MPH Consulting Limited at the request of International Cherokee Developments Limited. Three phases of mineral exploration work are covered by the report.

Phases I and II involved geological mapping at scales of 1:10,000 and 1:2,500, rock sampling, trenching, soil sampling, and VLF-EM and magnetic surveys. This work was done between September 24 and December 12, 1986.

Phase III involved a 353m diamond drilling program carried out between December 8, 1986 and January 12, 1987

2.0 PROPERTY LOCATION, ACCESS, TITLE

The Mike Group is located in the Chemainus River Valley approximately 28km north-west of Duncan on Vancouver Island, British Columbia. It is located in the Victoria Mining Division, on NTS sheet M92C/16E and centred at approximately 49° 54'N, 124° 05'E.

Access to the property is via MacMillan Bloedel's all weather Copper Canyon Main road from Chemainus. Smaller, unmaintained logging roads provide reasonable access to much of the property although many of these are blocked to vehicle traffic.



The Mike Group consists of four claims totalling 71 units, as summarized below:

Claim	Record Number	Units	Anniversary Date	Year Registered
Mike 1	1610 (12)	20	Dec. 11, 1991	1985
2	1611 (12)	18	Dec. 11, 1991	1985
3	1612 (12)	18	Dec. 11, 1991	1985
4	1613 (12)	15	Dec. 11, 1991	1985

The Claims were grouped on December 11, 1986. All claims are owned by International Cherokee Developments Limited.

3.0 HISTORY AND ECONOMIC SETTING

Government geological work in the area includes work by J.T. Fyles (1955), J.E. Muller (1977, 1980a, 1980b, 1982) and Massey (1987).

J.T. Fyles mapped the area to the west and south of the Mike Group in 1948 for a M.A.Sc. thesis (Fyles, 1949). P. Cowley studied rhodonite showings in the area for a B.Sc. thesis in 1979, but no field work was done on ground now covered by the Mike Group.

Noranda Exploration Company Limited staked much of the area now covered by the Mike Group in 1982 in response to gold bearing silt samples collected from Ridgeway Creek. Visible gold was reportedly obtained in one panned sample and two silt samples contained 10,000 ppb Au. During 1983 and 1984 detailed geological mapping and geochemical surveys were conducted in the area. No encouragement was found and the ground was dropped.



The Mike Group is partly underlain by rocks of the Upper Paleozoic Sicker Group. Since the announcement in 1979 of the discovery of Westmin Resources Ltd.'s new HW deposit at Buttle Lake, the Sicker Group has become an extremely active exploration target. Nearly all of the area underlain by the Sicker Group has been staked. Major companies actively exploring the Sicker include Abermin Corporation, Cominco Ltd., Corporation Falconbridge Copper, Esso Minerals Canada, Falconbridge Ltd., Noranda Exploration Ltd., Utah Mines Ltd., and Westmin Exploration Inc.

Westmin Resources Ltd.'s Buttle Lake mines contain total reserves of 14.74 million tonnes grading 5.43% Zn, 2.12% Cu, 2.40 g/t Au, 41.1 g/t Ag, and 0.34% Pb (Walker 1983).

The old Twin J Mine on Mt. Sicker is a Sicker Group hosted massive sulphide deposit lying 20 km to the east of the Mike Group. The area is currently being explored by Corporation Falconbridge Copper. Recorded production from 1898 to 1964 totalled 277,395 tonnes grading 7.5% Zn, 3.4% Cu, 5.14 g/t Au, 105 g/t Ag, and minor Pb. Reserves are reported as 317,520 tonnes grading 1.6% Cu, 0.65% Pb, 6.6% Zn, 4.11 g/t Au, and 140.6 g/t Ag as of 1971.

A significant recent development in the Sicker Group is the delineation of a large polymetallic massive sulphide zone on the Lara property, 15 km east of the Mike Group. On the Lara property, Abermin Corporation (formerly Aberford Resources Ltd.) has completed at least 80 diamond drill holes, tracing the Coronation Zone and Coronation Extension over a strike length of 1500m, to depths averaging 150m, and over widths averaging 6.2m. The average grade of the ore zone in 17 of the drill holes is 4.54% Zn, 4.11 g/t Au, 92.6 g/t Ag, 0.79% Cu, and 0.83% Pb. Surface trenching of the Coronation Zone has yielded results of up to 24.58 g/t Au, 513.6 g/t Ag, 43.01% Zn, 8.30% Pb, and 3.04% Cu over 3.5m. The Coronation Zone is open along strike on both ends.



The mineralized zones on the Lara Property are stratiform and are hosted by a rhyolite porphyry unit of the Sicker Group. Metal ratios of the Coronation Zone are very close to those of the Buttle Lake mines of Westmin Resources Ltd. The Twin J Mine is located 9 km southeast of the Lara property (i.e. on strike) and is geologically similar.

Further to the northwest, Westmin Exploration Inc. is exploring Nexus Resource Corporation's Thistle property, 20 km southeast of Port Alberni. A total of 16 significant Cu and/or Au mineralization occurrences have been located on the property, 15 of which are located within a 225m thick unit of mainly basaltic flows which are believed to be correlative with Muller's Sediment-Sill Unit and/or Myra Formation. Surface assays reported range from 7.75 to 41.8 g/t Au, 5.14 to 45.6 g/t Ag, and 2.71 to 10.2% Cu over apparent true thicknesses of 15cm to 4m. The best assay from 1984 diamond drilling was 17.6 g/t Au over 20cm. Westmin has spent approximately \$406,000 on the property in 1983 and 1984. A further \$400,000 was spent in 1985. The Thistle Mine produced 6278 tonnes of ore yielding 85,844 g Au, 65,938 g Ag, and 309,088 kg Cu in the period from 1938 to 1942.

Small rhodonite deposits are common in the Mike Group area. Rhodonite deposits on Hill 60 are hosted in cherty sediments of the Cameron River Formation (formerly mapped as Myra Formation) which strike NW into the southern part of the Mike Group. A rhodonite deposit on Hill 60 is presently being mined for semi precious carving material.

Cowley (1979) states that the rhodonite deposits may represent distal depositions of Mn-rich volcanogenic exhalations, although he believes that they are more likely proximal deposits around a number of hot springs. If they actually are related to volcanogenic exhalative activity, the environment is highly



favourable for a volcanogenic massive sulphide or gold deposit in the area.

In addition, Sicker Group rocks are known to host high grade Tertiary gold-quartz veins, structurally controlled gold-bearing quartz-carbonate alteration zones, and base metal/gold-bearing skarns. Recently, platinum group metals have been located in Sicker Group rocks.

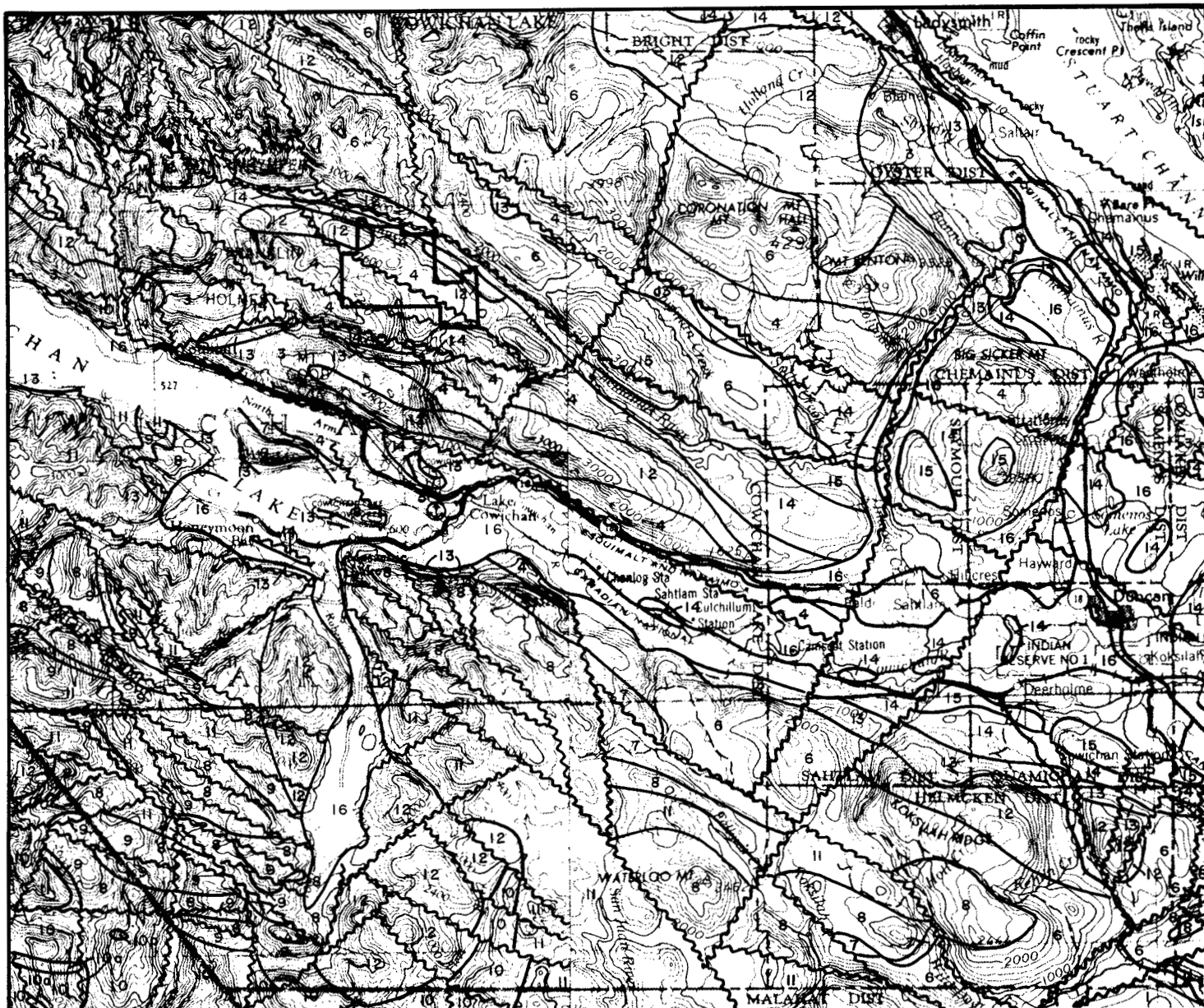
4.0 REGIONAL GEOLOGY

The Duncan to Cowichan Lake area is underlain by a west-northwest trending belt of Paleozoic Sicker Group rocks intruded by various bodies of Jurassic Island Intrusions and overlain by Triassic Karmutsen Formation basalts and Cretaceous Nanaimo Group sediments. South of Cowichan Lake extensive exposures of Bonanza Group volcanics are found, along with Karmutsen Formation, Quatsino Formation, and Island Intrusions rocks (Figure 3).

4.1 Wark-Colquitz Gneiss Complex

Wark Gneiss consists of irregularly foliated to massive biotite-hornblende diorite and quartz diorite, while Colquitz Gneiss consists of well foliated biotite-hornblende quartz diorite to granodiorite. The dark, mafic Wark and light, felsic Colquitz gneisses may be intimately interlayered locally. The Colquitz Gneiss was originally thought to intrude the Wark Gneiss, but is now considered to be a paragneiss derived from volcanoclastics. Migmatization of the gneisses, as interpreted from K-Ar dating, occurred during Early Jurassic plutonism that produced the Island Intrusions. It may be that the Paleozoic Sicker Group is the protolith of the Wark and Colquitz Gneisses, but zircon dating appears to indicate older Paleozoic or even Precambrian material (Muller, 1981).

The Wark-Colquitz Gneiss Complex is exposed in the vicinity of Victoria, where it forms the basement of the Insular Belt.



QUATERNARY

16 Glacial and alluvial deposits.

UPPER CRETACEOUS

Nandimo Group

15 Extension - Protection Fm.: sandstone, conglomerate; minor siltstone, shale, coal.

14 Haslam Fm.: shale, siltstone, minor sandstone.

13 Comox Fm.: sandstone, conglomerate, minor siltstone, shale, coal.

JURASSIC

Lower to Middle Jurassic

12 Island Intrusions: granodiorite, quartz diorite

Lower Jurassic

11 Bonanza Group: basaltic to rhyolitic tuff, breccia, flows, sills, and dykes; minor argillite, greywacke.

UPPER PALEOZOIC AND ? OR TRIASSIC AND JURASSIC

10 Westcoast Complex: quartz diorite, diorite, tonalite, amphibolite, agmatite; minor metavolcanic and metasedimentary rocks. 10a: recrystallized limestone, skarn.

TRIASSIC

Middle ? and Upper Triassic

Vancouver Group

9 Quatsino Fm.: limestone

8 Karmutsen Fm.: pillow basalt, breccia, tuff; minor flows.

PALEOZOIC

Sicker Group

PENNSYLVANIAN AND PERMIAN

7 Buttle Lake Fm.: limestone, chert, greywacke, argillite.

PENNSYLVANIAN AND MISSISSIPPIAN

6 Sediment - Sill Unit: argillite, greywacke, chert, diabase sills.

LOWER DEVONIAN AND OLDER

5 Saltspring Intrusions: meta-granodiorite, meta-quartz porphyry, quartz-sericite schist.

4 Myra Fm.: well bedded felsic tuff and breccia, argillite, rhyodacite in flows and sills, minor basic tuff, quartz-sericite schist, phyllite, massive sulphides.

3 Nitinat Fm.: pillow lava and breccia of augite (uralite) porphyry, basic tuff; minor chlorite-actinolite schist.

LOWER PALEOZOIC (OR YOUNGER ?)

2 Colquitz gneiss: quartz-feldspar gneiss

1 Wark gneiss: massive and gneissic metadiorite, metagabbro, amphibolite.

0 5 10 km



INTERNATIONAL CHEROKEE DEVELOPMENTS LTD.

REGIONAL GEOLOGY MAP

MIKE GROUP

VICTORIA MINING DIVISION

Project No: V 222

By: T. N.

Scale: 1 : 250 000

Drawn: J. S.

Drawing No: 3

Date: FEB. 1987



MPH Consulting Limited

4.2 Sicker Group

Muller (1980a) proposed the following subdivision of the Sicker Group, from oldest to youngest: Nitinat Formation, Myra Formation, Sediment-Sill Unit, and Buttle Lake Formation.

The **Nitinat Formation** consists predominantly of mafic volcanic rocks, most commonly flow-breccias or agglomerates including some massive flows, and rare pillow basalts. Locally, medium-grained, generally massive basaltic tuff is interbedded with the flows. The flow-breccia is composed of fragments of basalt up to 30 cm in length containing phenocrysts of uralitized pyroxene as well as amygdules, both from 1 mm to more than 1 cm in size, in a matrix of finer grained, similar basalt(?). Thin sections show pale green amphibole (uralite) is replacing clinopyroxene. Uralitized gabbroic to dioritic rocks underlie and intrude the volcanics and are believed to represent feeder dykes, sills, and magma chambers to the volcanics. The Nitinat Formation may be distinguished from the similar Karmutsen Formation by the abundance of uralite phenocrysts, a usual lack of pillow basalts, lack of dallasite alteration between pillows (characteristic of the Karmutsen) locally pervasive foliation, and lower greenschist or higher metamorphic grade. However, in some areas the distinction is still difficult, in which case whole rock analyses may be useful.

The **Myra Formation** (now mapped in the Cowichan Lake area by Massey (B.C. MEMPR 1987) as the McLaughlin Ridge Formation and/or Cameron River Formation) overlies the Nitinat Formation, possibly with minor unconformity. In the Nitinat-Cameron River area the Myra Formation is made up of a lower massive to widely banded

basaltic tuff or breccia unit, a middle thinly bedded albite-trachyte tuff and argillite unit, and an upper thick bedded, medium-grained albite-trachyte tuff and breccia unit. In the lower unit, crudely layered mottled maroon and green volcaniclastic greywacke, grit and breccia are succeeded by beds of massive, medium-grained dark tuff up to 20 m thick interlayered with thin bands of alternating light and dark, fine-grained tuff with local fine to coarse breccias containing fragments of Nitinat Formation volcanics. The middle unit comprises a sequence of thinly interbedded, light feldspathic tuff (albite trachyte or keratophyre composition) and dark marine argillite which has the appearance of a graded greywacke argillite turbidite sequence. In the upper part of the middle unit, sections of thickly bedded to massive black argillite occur. The upper unit contains fine and coarse crystal tuffs in layers up to 10 m thick with local rip-up clasts and slabs of argillite up to 1 m in length as well as syndimentary breccias of light coloured volcanic and chert fragments in a matrix of black argillite.

Mapping by Fyles (1955) in the area north of Cowichan Lake located a thick sequence of mainly massive green volcanics (Nitinat Formation), overlain by a "marker" unit consisting of a sequence of thin bedded, cherty tuffs with several metres of coarse breccia containing fragments of amygdaloidal volcanics between it and the Nitinat Formation. Overlying the marker unit are grey to black feldspathic tuffs and argillaceous sediments and minor breccias. Muller (1980a) considers the marker unit to correspond to the lower unit of the Myra Formation, while the overlying unit of tuffs and sediments is correlated with the middle unit "and probably contains the upper ... unit as well."



In the Mt. Sicker area, the Myra Formation is more pervasively deformed and consists of well bedded, mainly felsic tuff and breccia interbedded with black argillite and some greywacke. The rocks have been converted to quartz-chlorite-sericite schist in steep and overturned isoclinal folds. Breccia fragments are commonly epidotized. The "Tye Quartz Porphyry" is a porphyritic rhyolite containing quartz eyes to 5 mm that occurs partly as cross cutting sills and partly as flows(?) within the Myra Formation. Tye Quartz Porphyry is related to the Saltspring Intrusions.

The type locality of the Myra Formation is Myra Creek, at the south end of Buttle Lake, about 160 km northwest of Duncan. Volcaniclastic rocks consisting dominantly of rhyodacitic or rhyolitic tuff, lapilli tuff, breccia, and some quartz porphyry and minor mafic flows and argillite (Upper Myra Formation) are host to Westmin Resources Ltd.'s Myra, Lynx, Price, and H-W massive sulphide (Cu-Zn-Pb-Au-Ag-Cd) deposits.

Muller (1980a) estimated the thickness of the Nitinat Formation at about 2000 m and that of the Myra Formation at 750 to 1000 m. Fyles' (1955) work indicates a thickness of at least 1500 m for the Nitinat Formation, and at least 1000 m for the Myra Formation in the Cowichan Lake area. Both the Nitinat and Myra Formations were dated as Devonian and/or older by Muller (1980a).

The **Saltspring Intrusions** are fine to medium grained, light coloured metamorphosed granite or granodiorite which lacks the speckled appearance of most other intrusive rocks on Vancouver Island. Indistinct gneissic foliation and agmatitic structures occur pervasively. The Saltspring Intrusions have gradational



contacts with the Tye Quartz Porphyry of the Myra Formation and are considered to be comagmatic with it. Dating of the Saltspring Intrusions reveals an initial age of latest Silurian.

The Saltspring Intrusions are exposed mainly on Saltspring Island, and do not extend westward into the regional geology map area.

The **Sediment-Sill Unit** (now mapped in the Cowichan Lake area by Massey (B.C. MEMPR 1987) as the Cameron River Formation) is transitional between the Myra and Buttle Lake Formations. The upper and lower contacts are poorly defined. Thin bedded, turbidite-like, much silicified or cherty massive argillite and siltstone are interlayered with diabasic sills. The sediments show conspicuous dark and light banding on joint surfaces. The sills consists of a fine-grained, greenish black matrix containing feldspar phenocrysts up to more than 1 cm, commonly clustered in rosettes up to few centimetres in diameter, producing a very distinctive "flower porphyry" appearance. Subophitic texture may also be visible in hand specimen. The sediments are dated as Mississippian in age whereas the sills are believed to represent feeders to Triassic Karmutsen volcanics.

The **Buttle Lake Formation** (now mapped in the Cowichan Lake area by Massey (B.C. MEMPR 1987) as the Mt. Mark Formation) consists of a basal green and maroon tuff and/or breccia overlain by coarse-grained crinoidal and calcarenitic limestone, fine-grained limestone with chert nodules and some dolomitic limestone. Lesser amounts of argillite, siltstone, greywacke, or chert may also be present.

In the area southeast of Cowichan Lake, the Buttle Lake Formation consists of laminated, calcareous grey siltstone and black argillite containing lenses of coarse-grained calcarenite, minor massive beds or crinoidal limestone about 1 m thick, and lenses and nodules of chert. The section was described by an earlier worker as mainly interbedded chert and limestone (Yole in Muller, 1980a).

The Buttle Lake Formation is up to 466 m thick (approximately 300 m thick southeast of Cowichan Lake). The age of the formation, on the basis of fossil dating, appears to be Middle Pennsylvanian, but could possibly be as young as Early Permian (Muller, 1980a) This has been confirmed by recent dating work by Brandon and others (1986), including isotopic as well as conodont ages, which indicates that rocks of the Buttle Lake Formation are early Middle Pennsylvanian (Atokan) through Early Permian (probably Sakmarian) in age.

4.3 Vancouver Group

The **Karmutsen Formation** volcanic rocks unconformably to paraconformably overlie the Buttle Lake Formation limestone to form the base of the Vancouver Group. They are the thickest and most widespread rocks on Vancouver Island. The formation, which is well exposed in the area of El Capitan Mountain, consists mainly of dark grey to black, or dark green, tholeiitic pillow basalt, massive basalt, and pillow breccia. Flows are commonly aphanitic, feldspar porphyritic, and amygdaloidal. Pillow lavas generally occur toward the base of the section.



Conglomerate containing clasts of Sicker Group rocks and jasperoid tuff forms basal sections in the Nitinat-Horne Lake area to the northwest.

Karmutsen Formation rocks are generally relatively undeformed compared to Sicker Group rocks and are dated Upper Triassic and older.

Massive to thick bedded limestone of the **Quatsino Formation** is widespread in the area south of Cowichan Lake. The limestone is black to dark grey and fine-grained to microcrystalline. Coarse-grained marble occurs in the vicinity of intrusive rocks. Most of the economic skarn deposits on Vancouver Island are hosted by Quatsino limestone. Thin bedded limestone also occurs in the formation. Fossils indicate an age of Upper Triassic (Muller and Carson, 1969).

The **Parsons Bay Formation** overlies Quatsino limestone, or locally, Karmutsen volcanics. It is composed of interbedded calcareous black argillite, calcareous greywacke and sandy to shaly limestone. It is included within the Quatsino Formation within the report map area. The Quatsino and Parsons Bay Formations are considered to represent near and offshore basin facies, respectively, in the quiescent Karmutsen rift archipelago (Muller, 1981).

4.4 Westcoast Complex

The **Westcoast Complex** comprises a variety of plutonic and metamorphic mafic crystalline rocks, including amphibolite, diorite, and quartz diorite with homogeneous, agmatitic or gneissic textures. Dioritic or agmatitic bodies underlying or intruding the Nitinat Formation are included. Metamorphosed Karmutsen Formation and/or Sicker Group rocks grade locally into the complex and are believed to be its protolith, having been migmatized in Early Jurassic time. The mobilized granitoid portion of the complex is believed to be the source of the Island intrusions and, indirectly, the Bonanza Group volcanics (Muller, 1981, 1982). Small bodies of recrystallized limestone found within the complex are believed to be derived mainly from the Quatsino Formation, and to a lesser extent from the Buttle Lake Formation.

4.5 Bonanza Group

The **Bonanza Group** stratigraphy varies considerably from place to place, as it represents parts of several different eruptive centres of a volcanic arc. Basaltic, rhyolitic, and lesser andesitic and dacitic lava, tuff, and breccia with intercalated beds and sequences of marine argillite and greywacke make up the Bonanza Group. In the area south of Cowichan Lake, the volcanics are described as dark brown, maroon, and yellow grey massive tuff, volcanic breccia, and massive or plagiophyric flows (Muller, 1982). The Bonanza volcanics are considered to be extrusive equivalents of the Island intrusions and to be of Early Jurassic age.

4.6 Island Intrusions

Exposures of **Island Intrusions** consisting mainly of quartz diorite and lesser biotite-hornblende granodiorite occur throughout the area and are assigned an age of Middle to Upper Jurassic. Intrusive contacts with Sicker and Bonanza Group volcanic rocks are characterized by transitional zones of gneissic rocks and migmatite although contacts with Karmutsen Formation volcanic rocks are sharp and well defined. Skarn zones are reported at the contact of Island Intrusion rocks with Quatsino Formation limestone and less abundantly with Buttle Lake Formation limestone.

4.7 Nanaimo Group

Upper Cretaceous Nanaimo Group sedimentary rocks occurring throughout the area overlie Paleozoic Sicker Group rocks with profound unconformity. Extensive exposures occur in the Chemainus and Cowichan River valleys. The formations present comprise the basal portions of the Nanaimo Group.

The **Comox Formation** consists mainly of quartzofeldspathic, cross-bedded beach facies sandstone and lesser conglomerate. Numerous intercalations of carbonaceous and fossiliferous shale and coal are characteristic.

The **Haslam Formation** is a nearshore littoral depositional facies unit characterized by massive bedded fossiliferous sandy shale, siltstone and shaly sandstone.

Interbedded coarse clastic conglomerate, pebbly sandstone and arkosic sandstone of the **Extension-Protection Formation** are beach and deltaic sands. Minor shale and coal are reported.

4.8 Structure

The Buttle Lake Arch, Cowichan-Horne Lake Arch and Nanoose Uplift are north-northwesterly trending axial uplifts and are believed to be among the oldest structural elements in south central Vancouver Island. Folding and uplift occurred before the late Cretaceous, and possibly before the Mesozoic (Muller and Carson, 1969), and more tilting, folding, and uplift occurred after the late Cretaceous. Sicker Group volcanic and sedimentary rocks occur at the cores of these uplifts.

Asymmetric southwest-verging, northwest-trending antiformal fold structures characterized by subvertical southwest limbs and moderately dipping northeast limbs are reported at Buttle Lake, in the Cameron-Nitinat River area, and north of Cowichan Lake. Well-developed foliation developed during metamorphism to chlorite-actinolite and chlorite-sericite schist in steep and overturned limbs of folds. Folding may have occurred prior to intrusion of Triassic(?) mafic sills along axial planar surfaces in folded Sediment-Sill unit rocks. Evidence from K-Ar dating also suggests Jurassic folding. Buttle Lake Formation limestones are relatively undeformed in some places, although in others, as in the Chemainus River Canyon, they are highly deformed, along with other Sicker Group rocks (Brandon and others, 1986). Vancouver Group units are not as intensely folded; gentle monoclinial and domal structures have been mapped. However,



Karmutsen Formation volcanic rocks locally conform to the attitude of underlying Myra and Buttle Lake Formations (Muller, 1980a).

Some early Mesozoic faulting occurred in the area prior to emplacement of Island Intrusions. Middle to Upper Jurassic intrusive activity (Island Intrusions) occurred along north-westerly trends.

Extensive west-northwest trending faulting occurred during the Tertiary and is best illustrated by large displacements of Nanaimo Group sediments in some areas, such as the north side of the Chemainus River valley, placing Sicker Group rocks above Nanaimo Group rocks. These faults have been traced for up to 100 km. Such structures may represent large scale underthrusting from the southwest, in a regime of long-term semi-continual northeast-southwest compression. Nanaimo Group sediments are tilted up to at least 60° from paleohorizontal where they are overlying folded Sicker Group rocks with angular unconformity such as on the south side of the Chemainus River Valley. Minor late northeasterly trending tear-faults and block faults offset northwest-trending faults in the Cowichan Valley and Saltspring Island areas.



4.9 Mineral Occurrences and Deposits

4.9.1 Gold Occurrences

1. Amore (Summit Group) Au Ag Zn Mo Pb

Geology:

Fractures and faults in silicified Sicker Group sediments and volcanics often contain quartz veins which carry pyrite, arsenopyrite, and molybdenite. One vein carries visible gold, sphalerite, pyrite, arsenopyrite, pyrrhotite and galena.

Mineralization Features:

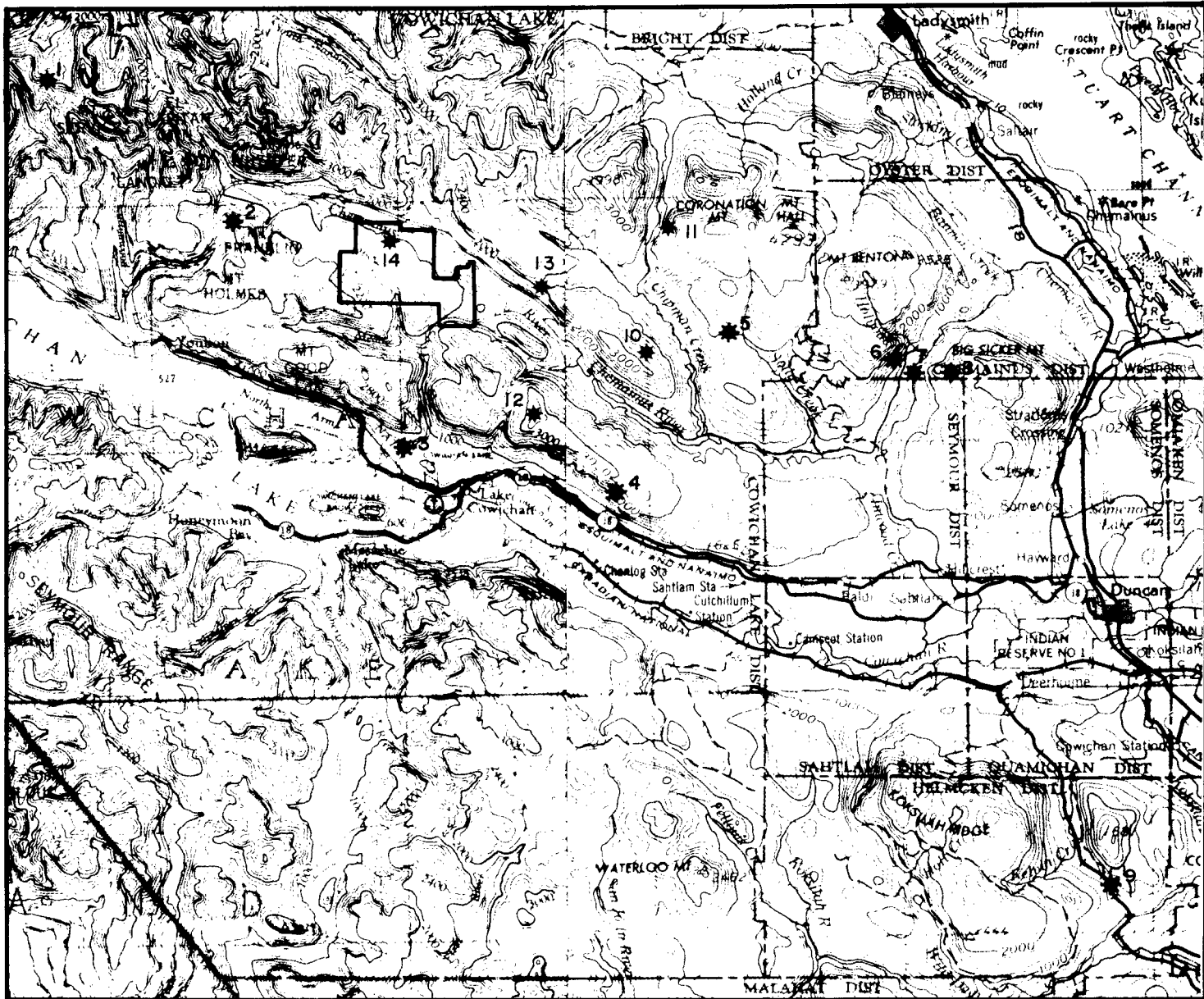
The sphalerite-bearing vein is 3 to 30 cm wide and was exposed for 30 m during the mining of a 2 tonne bulk sample. Results are not reported. Another(?) vein is 15 to 25 cm wide and was traced for about 300 m. The best assays were 19.2 g/t Au, 51.4 g/t Ag over 8.9 cm and 17.8 g/t Au, 8.2 g/t Ag over 31.0 cm. All 36 other assays showed trace or 0.34 g/t Au. Soil sampling has located numerous samples anomalous in one or more of Mo, Cu, Ag, Au.

History:

1968: Cominco Ltd.; regional work (no details available)
1978-82: Aquarius Resources Ltd.; prospecting, bulk sample from Amore 2, trenching, 5 DDH for 122 m. Soil, silt, and rock sampling in 1981-82

References:

EBC 1978-E125, 1979-126
AR 6963, 7187, 7908, 10324, 10970
Minfile 92C117



GOLD OCCURRENCES

- 1. Amore
- 2. Comego
- 3. Meade Ck.
- 10. Chem *
- 14. Mike

BASE METAL OCCURRENCES, DEPOSITS

- 5. Lara
- 6. Pauper
- 7. Copper Canyon
- 8. Twin J
- 9. King Solomon
- 13. Pogo

OTHER OCCURRENCES

- 4. Hill 60
- 11. Lady A, C
- 12. Stanley Creek



* not described in Mineral Occurrence Section.

INTERNATIONAL CHEROKEE DEVELOPMENTS LTD.	
MINERAL OCCURRENCES LOCATION MAP MIKE GROUP VICTORIA MINING DIVISION	
Project No: V 222	By: T. N.
Scale: 1 : 250 000	Drawn: J. S.
Drawing No: 4	Date: FEB. 1987
MPH Consulting Limited	



2. Comego (Cascade, Kitchener, Widow Group, Anne)

Au Cu Mo W Ag Zn Fe

Geology:

The area is underlain by Sicker Group bedded cherts, cherty tuffs, agglomerates, and andesites intruded by a gabbro-diorite sill, a quartz diorite stock, and feldspar porphyry dykes. Three types of mineralization are found in the Sicker rocks: 1) garnet-actinolite-quartz-calcite-epidote-chlorite skarn often containing magnetite, chalcopyrite, pyrite, pyrrhotite, local molybdenite, scheelite, sphalerite, tetrahedrite, rare bornite and arsenopyrite occurring in cherty tuff near the contact of the gabbro-diorite sill; 2) rusty weathering quartz-carbonate stringers in a shear zone containing finely disseminated molybdenite, pyrite, chalcopyrite, tennantite, local bornite and magnetite; and 3) quartz veins associated with the skarn zones containing masses of chalcopyrite, pyrite, and molybdenite.

Mineralization Features:

The main skarn zone is 30 m wide by 90 m high by possibly 500 m long. Best assays are 14.1 g/t Au over 1 m, 27.4 g/t Ag over 4.6 m, 8.3% Cu over 6 m, 1.3% Mo over 4.6 m, 0.32% WO_3 over 1 m. The best DDH intersection was 0.69 g/t Au, 10.3 g/t Ag, 0.5% Cu over 7.3 m. Assays from the quartz-carbonate zones are all very low. The quartz-molybdenite vein(s) are 1.5 m wide, 15 m long. Samples over 1.5 m averaged 1.3% Cu, 4.6% Mo, while a 2 m sample assayed 1.20 g/t Au, 21.3 g/t Ag, 2.2% Cu, 0.28% Mo, 0.32% WO_3 .

**History**

- 1902-06: G. Lawrence; (Cascade) open cut, stripping, 2 pits
- 1919: L.A. Sherk; (Kitchener Group) several open cuts and 4 short adits existed on the property
- 1920's: The consolidated Mining and Smelting Co. of Canada Ltd.; test work, drove a short adit
- 1948-55: Duncan Powell and others; unspecified work
- 1964: O.G. MacDonald; blasted 5 pits, soil sampling, mag survey
- 1969-70: Hibernia Mining Co. Ltd.; (Anne) soil sampling, mapping, JEM survey
- 1971: Tagus Syndicate; mapping 7 DDH for 500 m
- 1980-81: DRC Resources Corp.; mapping, soil, and rock sampling

References:

- MMAR 1906-211, 1919-239, 1931-163, 1948-158-161
- GEM 1969-223, 1970-290, 1971-230
- AR 641, 1949, 2167, 2869, 8283, 10102
- BCDM Bull 37, p57
- Carson 1968, pp128-130
- Minfile 92C018

3. Meade Creek Au**Geology:**

Placer gold deposit. Fine gold was found from bedrock to 6 m above high water level.



5. Lara Au Zn Ag Cu Pb

Geology:

The property is underlain mainly by Myra Formation intermediate to felsic volcanics and pyroclastics on the south limb of a gently westerly plunging anticline. Argillite units, locally graphitic, are associated with felsic tuffs. Three tuffaceous-sedimentary intervals containing pyrite and lesser amounts of sphalerite, chalcopyrite, and galena have been traced for up to 6.3 km along strike. The two northern horizons contain only minor base metals, but the southern horizon contains the Coronation Zone, Coronation Extension, and Road Showing. The Coronation Zone as outlined by drilling is stratiform and dips 60-65° to the north. The Coronation Extension is believed to occur at a higher stratigraphic level than the Coronation Zone.

Mineralization Features:

The pyritic horizons range from 25 cm to 10 m in thickness and are traceable by IP, VLF-EM, and soil geochemistry. The Coronation Zone and Coronation Extension together have been outlined for a total of about 1500 m along strike and to depths averaging about 150 m. The width varies from about 1.5 to 8.2 m, averaging about 6.2 m. The Coronation Zone is open along strike on both ends. Average grades of 4.54% Zn, 4.11 g/t Au, 92.6 g/t Ag, 0.79% Cu, and 0.83% Pb have been announced from 17 of the 80 or more drill holes on the property. Individual intersections include: 3.6% of 7.30 g/t Au, 275 g/t Ag, 9.22% Zn, 1.16% Cu, 2.53% Pb; 2.99 m of 4.53 g/t Au, 108.7 g/t Ag, 5.87% Zn, 1.26% Cu, 2.48%



Pb. A trench on the Coronation Zone above the discovery drill hole exposed massive sulphides grading 24.58 g/t Au, 513.6 g/t Au, 43.01% Zn, 8.30% Pb, 3.04% Cu over 3.51 m. A feasibility study on the establishment of a 300-500 ton-per-day milling operation is planned for early 1987. Little information is available on the Road Showing area. Six 1984 diamond drill holes intersected "weak" polymetallic mineralization in the area.

History:

- 1966-67: Cominco Ltd.; (Tot/Rum property) IP, resistivity, soil sampling
- 1978: UMEX Inc.; (Elk, Mouse groups) soil sampling, mapping, mag, EM16, shootback EM
- 1981-82: Laramide Resources Ltd.; (Silver 2 claim) soil sampling, IP, VLF-EM
- 1983-86: Aberford Resources Ltd.; (Lara) extensive geophysics, geological mapping geochemical surveys, trenching, EM survey, at least 80 DDH, prospecting.

References:

- EBCR 1978-E124
- AR 7384, 10116, 11123
- MER 1983, p30
- NM Feb 7, Aug 8, 1985; June 2, Aug 18, 1986.
Abermin Corporation - Information Booklet; Dec 30, 1985
- VS 1986: Jan 24, Jan 28, May 26, Aug 5, Aug 13.

4.9.2. Base Metal and Other Occurrences

6. Pauper (L.31G, Sharon Copper, Mons 1, Brent 1) Cu Au Ag Zn

Geology:

The area is underlain by steeply dipping sericite and quartz augen-sericite schists of the Sicker Group cut by Sicker diorite and gabbro sills and dykes. The mineralization consists of pyrite-chalcopyrite disseminations and is apparently stratabound. Carson (1968) stated that this occurrence is very similar to pyritic zones formed near massive sulphide deposits and that it is found in quartz-sericite-chlorite schists similar to those of Twin J and Western Mines.

Mineralization Features:

The pyritic zone is 18 m wide. Assays include 2% Cu over 18 m; trace Au, 34 g/t Ag, 7.5% Cu from ore from the adit; and trace Au, 6.9 g.t Ag, 8% Cu from a showing 90 m south of the adit. A DDH drilled about 800 m west of the adit in 1978 cut 3 m of 0.192% Cu, 0.08% Zn, 3.77 g/t Ag, 0.14 g/t Au.

History:

1903:	Henry Fry; Pauper (L.31G) Crown Granted
1919:	E.J. Palmer, L. Levansaler; open cut, 15 m adit with 15 m crosscut at end
1924:	J.P. Tomlinson; Pauper (L.31G) re-Crown Granted
1927:	E.F. Miller and Associates; no work reported



1977-79: Imperial Oil Ltd./Esso Minerals Canada Ltd.; (Mons
l/Brent l) airborne EM survey; EM, mag, SP, soil
sampling, mapping, 1 DDH for 93 m.

References:

MMAR 1903-250, 1923-274, 1924-368, 1927-339
EBC 1978-E121
AR 6548, 7323
Carson 1968, p 159
Minfile 92B040

7. Copper Canyon Cu Ag Au (Zn Pb)

Geology:

The area is underlain by schistose Sicker Group volcanics including quartz-sericite schist, chlorite schists, and rhyolite porphyry, intruded by diorite (of the Island Intrusions?). A band 120 to 180 m wide contains five mineralized zones; two on its southern side and three on its northern side. Disseminated to massive pyrite and minor chalcopyrite occur in a quartz vein; in a quartz vein in a shear zone; and in schist with no associated quartz vein. The schists are reported to be more siliceous and less foliated than at the Twin J mine (8). Unlike the Twin J, there is no barite associated with the mineralization.

**Mineralization Features:**

Assays reported include 10.2% Cu from a grab sample from a minor showing south of the Copper Canyon adit; trace Au, 17.1 g/t Ag, trace Cu over 3 m in the Victoria adit; 1.71 g/t Au, 54.9 g/t Ag, 6.77% Cu, 0.01% Pb, 0.06% Zn (location unreported). The mineralized lenses have a maximum width of 1.8 to 2.1 m. One 1.8 m zone is composed of 0.3 to 0.6 m of massive mineralization and 1.2 to 1.5 m of disseminated and veinlet mineralization. The Copper Canyon adit followed a lens for 41 m before losing it due to faulting or folding. An EM conductor 3 to 4.5 m wide by 335 m long with coincident Cu-Pb-Zn soil geochemical anomalies has been outlined on the Copper Canyon claim.

Production in 1904, 1905, and 1907 came from the Victoria claim and totalled 109 tonnes, yielding 93 g Au, 3421 g Ag, and 4346 kg Cu.

History:

- 1897: P.J. Pearson (Copper Canyon) 30 m tunnel
- 1901-02: Mounts Sicker and Brenton Mines Ltd.; tunnel on Copper Canyon lengthened to 94 m, various crosscuts and a raise/shaft added; 46 m tunnel drive on Victoria; various test pits on all claims, short adits on Klondyke, Susan claims
- 1971-73: Viva Ventures Ltd.; VLF-EM, LF-EM, shootback EM, mag, seismic, IP, resistivity, SP, gravity, soils, mapping
- 1977: J.R. Deighton; mapping, soil and silt sampling
- 1978: UMEX Inc.; mapping, EM, mag, soil sampling, 1 DDH for 145 m on Klondyke
- 1985: Canamera Explorations Ltd.; soil sampling, IP, trenching, 3 DDH for 306 m



8. Twin J (Lenora, Tyee, Richard III)
Zn Cu Au Ag Pb Cd Ba

Geology:

The area is underlain by Sicker Group andesitic flows and cherty tuffs with minor sediments, metamorphosed to quartz-sericite, quartz-chlorite, and chlorite schists which are intruded by sills, dykes, and irregular masses of gabbro-diorite. The two main orebodies occur 46 m apart in strongly dragfolded parts of a schist "panel", often close to the contact of a band of graphitic schist and bounded by an intrusive sodic rhyolite porphyry. Within the orebodies, two types of ore are found. Barite ore is a fine-grained mixture of pyrite, chalcopryrite, sphalerite, and minor galena in a barite-quartz-calcite gangue. It is frequently banded, with chalcopryrite-pyrite and sphalerite layers. Quartz ore consists mainly of quartz and chalcopryrite and occurs in long lenticular masses within barite ore and the host schists.

Mineralization Features:

The North orebody is 520 m long by 0.3 to 3 m wide by 37 m downdip. The South orebody is 640 m long by 6 m or more wide by 46 m downdip. Total recorded production from 1898 to 1964 amounts to 276,831 tonnes ore containing 1,244,555 g Au, 26,141,200 g Ag, 9,681,576 kg Cu, 20,803,748 kg Zn, 189,925 kg Pb, and 1179 kg Cd. Reserves are reported as 317,520 tonnes grading 1.6% Pb, 6.6% Zn, 4.11 g/t Au, and 140.6 g/t Ag as of 1971.

**History:**

- 1897-1927 Operated as three separate mines: **Lenora**, (Lenora - Mt. Sicker Mining Co.), **Tyee** (Tyee Copper Mining Co.) and **Richard III** (Richard III Development Co. Ltd.). Most of the production came in the period from 1900 to 1907.
- 1928-29: Pacific Tidewater Mines Ltd.; joined the three mines underground (**Lenora, Tyee, Richard III**)
- 1939-40: Sheep Creek Gold Mines Ltd.; DD'g, trenching, underground development
- 1942-47: Twin J Mines Ltd.; 125 tpd concentrator, mining from 1943 to May 1944 and mid-1946 to September 1947 (mainly from Lenora)
- 1949-52: Vancouver Island Base Metals Ltd.; mining 1951 to January 1952 (mainly from Lenora)
- 1964: W. Howden; mined 151.5 tonnes from **Lenora**, grade not reported
- 1967-70: Mt. Sicker Mines Ltd.; 7 DDH for 123 m, mapping, trenching
- 1972: Ducanex Resources Ltd.; 5 DDH for 914 m, mapping, shootback EM
- 1973-74: Dresser Industries Inc.; 8 DDH for 1676 m, IP, soils
- 1978-80: SEREM Ltd.; 7 DDH for 1236 m, mapping, soils, mag, EM
- 1983-86: Corporation Falconbridge Copper/Peppa Resources Ltd.; geological mapping, DDH's, sampling, mag, EM 37, IP

References:

- MMAR 1928-365, 1931-164, 1935-G46, 1936-F63, 1939-90,
1940-74, 1942-70, 1943-69, 1944-67, 1946-191,
1947-183, 1949-224, 1950-180, 1951-199, 1952-214,
1964-168, 1967-79, 1968-107
- GEM 1969-224, 1970-291, 1972-240, 1974-163
- EBC 1978-E119
- AR 1104, 1714, 3741, 3950, 3951, 4904, 5164, 6996, 7714,
7814, 7875, 8168, 8264
- CIMM Structural Geology of Canadian Ore Deposits, 1948,
p48
- CMH 1972/73
- TML 1984, #042, 064, 136, 192, 195
- Minfile 92B001, 002, 003

9. King Solomon (L.17G, L. 152, L. 157; Kokisilah)
Cu Ag Zn Pb Fe (Au)

Geology:

The main deposit consists of a 6.1 m thick body of massive pyrrhotite-pyrite(-chalcopyrite), oriented 030/35° southeast and hosted by intensely shattered, highly epidote-altered cherty tuff to basaltic chert at or near the base of the Buttle Lake Formation. The tuff contains pyrrhotite disseminated, in fracture fillings, and in massive pods or lenses to at least 12 cm by 20 cm. A strongly altered rhyolite dyke(?) intrudes the tuff about 7 m from the massive orebody. An adit was driven approximately along the dyke contact. A second orebody occurs above the main one (King Solomon upper workings; Limestone



orebody). It consists of complexly interlayered chert and epidote skarn with 15% pyrite and chalcopyrite disseminations and fracture fillings, in complex contact with a porphyritic dacite intrusive and trends about $135/45-50^{\circ}$ northeast.

Mineralization Features:

The first 6.1 m to 9.1 m (20' to 30') of the main orebody away from the dyke is richer, averaging 4% to 5% Cu, while the outer 4.6 to 6.1 m (15' to 20') of the deposit is lower grade, averaging about 2% Cu. The main orebody is 91.4 m long by 6.1 to 21.3 wide (300' long by 20' to 70' wide). A 29.0 m (95') crosscut intersected ore averaging 5% Cu for the first 12.2 m (40') while the last 16.8 m (55') contained heavy Fe, Cu mineralization. A 7.6 m (25') shaft connected to a 21.3 m (70') drift and a 6.1 m (20') open cut on the "limestone orebody" were all in ore, averaging 5% Cu in the shaft and 4% Cu elsewhere. The limestone orebody is generally lower grade than the main orebody. Au + Ag contents averaged \$1.50 ton in both deposits (1938) prices.

The main crosscut tunnel was driven 45.7 m (150') below and subparallel to the main orebody, never intersecting ore; a zone from 45.7 m to 207.3 m (150' to 680') runs 0.5-2.5% Cu, trace Au (stringer zone below massive sulphides?). Geophysical surveys located weak, short coincident magnetic and VLF-EM anomalies over the old workings. Reserves were estimated at 226,750 t (250,000 tons) of 1.4% Cu or 286,612 t (316,000 tons) of 0.83% Cu in the late 1950's and early 1960's.

**Production:**

1904-05,07: 245 t (270 T) ore; 6376 g (205 oz) Ag, 17,974 kg (39,626 lb) Cu (25.71 g/t (0.75 oz/T) Ag, 7.34% Cu).

1912: 274.8 t (303 T) picked ore averaged over 5% Cu.

History:

1903-07: Maclay, Ryan; Mining

1909: James Humes; granted Crown Grant L. 17G

1913-14: King Solomon Copper Mining Co.; drove lower adit 167.6 m (550')

1956-60: Cellardor Mines Ltd.; (King Solomon, Blue Bell-#11, and other claims), surface work, SP, dewatered old workings, 13 DDH for 640 m (2100'), enlarged lower adit for more than 121.9 m (400').

1983-85: Reward Resources Ltd.; geological mapping (1:2000, 1:5000), magnetometer surveys, rock sampling, VLF-EM soil sampling.

1986: Reward Resources Ltd; geological mapping (1:2500), IP surveys, diamond drilling.

References:

MMAR 1903-210, 1904-253, 1905-216, 1907-155, 1908-164, 1909-278, 1913-290, 1914-386, 1916-312, 1923-272, 1928-363, 1959-140, 1960-116

GEM Mem. 96, pp371-377

Minfile 92B015



13. Pogo Zn Pb Cu (Ag)

Geology:

Pyrrhotite, pyrite, chalcopyrite, sphalerite, and galena occur disseminated and on fracture planes in a fractured, fine-grained diabase sill which intrudes black cherty argillites of the Sicker Group (i.e. Sediment-Sill Unit). The mineralization occurs at a synclinal fold axis where the sill is "pinched" as it crosses from the west limb to the east limb. A second showing 1370 m southeast of the main showing contains Zn-Pb-Cu mineralization in a rusty shear zone in the diabase sill.

Mineralization Features:

The best assays from the main showing are 0.42% Zn over 3 m and 0.48% Pb, 0.09% Cu, trace Ag, each from different 1.5 m samples. A grab sample from the second showing assayed 0.72% Zn, 0.17% Pb, 0.13% Cu.

History:

1964: E.M. Wilson; mapping, rock sampling
1985: JBC Resources Ltd., mapping, rock sampling

References:

AR 566
Minfile 92C074

4. Hill 60 (L.12G, L.13G) Mn

Geology:

Thinly banded green, cream, and red cherty Sicker Group tuffs with local lenses of red jasper host lenses of rhodonite. A few thin basic dykes cut the cherty tuffs near the main workings. The rhodonite was heavily oxidized to a depth of about 4.6 m in the main workings. A type of yellow manganese garnet occurs locally in chert. Chalcopyrite and bornite are reported to occur disseminated in rhodonite and jasper.

Mineralization Features:

The main open pit is about 18 m long, 6 to 9 m wide and 4.6 to 6 m deep. A 539 tonne shipment averaged 50% Mn, 19% SiO₂. Assays range from 15.88 to 57.15% Mn with the average of 25 samples being 43.09% Mn over an average of 1.19 m. The average Al₂O₃ content of 17 samples was 1.02%. Other thinner, smaller, less oxidized lenses of rhodonite (presumably including the Striker occurrence reported by Cowley (1979) occur in an area about 335 m long by 105 m wide. This is the only Mn deposit in the Sicker Group known to have been significantly oxidized, a condition which is necessary to make rhodonite into Mn ore. Total production in 1919 and 1920 was 1135 tonnes; Mn content was not reported.

History:

- 1918: Dickie, Wood, Service, Douglas; discovered showing, stripping and cuts
- 1919-24: British Columbia Manganese Co. Ltd. (NPL); mining in 1919 and 1920. Constructed an aerial tramway, but no work performed since 1920
- 1930: Dominion-Provincial Mining Training Projects; cleaned out and extended trenches, trenching and stripping on new occurrences

References:

- MMAR 1918-296, 1919-237, 1924-368
BCDM Bull 37, p67
GSC P72-53; P64-37, p19; EGS 12
Canadian Rockhound, February 1966, p7
Canadian Munition Res. Com. Final Report, 1920, pp91, 95
Minfile 92B027
Cowley, P. Correlation of Rhodonite Deposits on Vancouver Island and Saltspring Island, British Columbia; UBC B.Sc. Thesis, 1979

11. Lady A, Lady C Fe**Geology:**

The Lady A deposit consists of 2 lenses of taconite in cherty Sicker Group sediments while the Lady C consists of a single lens of taconite. The taconite is composed of bands of extremely fine-grained magnetite and minor specularite and hematite in grey chert and red jasper. Jasper is more common at Lady C.

Mineralization Features:

The A deposit outcrops over a strike length of 105 m and is up to 18 m wide. Drilling revealed an average thickness of less than 9 m.

The C deposit is exposed for 53 m along strike and has an apparent thickness of approximately 15 m. Limited drilling revealed a thickness of 45 m or more (holes were stopped before

reaching the hanging wall) locally and down dip extent of at least 60 m. Average grades of the 4 holes ranged from 9.5 to 30.5% Fe.

The fineness of the magnetite could prove a problem in the magnetic separation process.

Reserves of the Lady A deposit are roughly estimated at 326,600 tonnes grading 25% Fe, based on diamond drilling results. The Lady C deposit is believed to be larger than the Lady A but insufficient drilling has been done to draw definite conclusions.

History:

1953: Ladysmith development Ltd.; 12 DDH for 390 m on Lady A and 4 DDH for 204 m on Lady C
1985: Anna Maria Joyce (Ermelina claim); no work reported

References:

MMAR 1956-135
BCDM Bull 37, p13
Carson 1968, pp101-102
Minfile 92B029, 033

Comments:

Apparently no Au analyses have been carried out on the taconite showings.



12. Stanley Creek (Lookout Locality, Chem A) Mn

Geology:

Two irregular lenticular masses of rhodonite lie parallel to bedding in Sicker Group cherty tuff.

Mineralization Features:

The lenses are several centimeters to 0.3 m wide and about 6 m long. A microprobe analysis by Cowley (1979) revealed 42.25% MnO content.

History:

Known at least as early as 1939. No physical work on the occurrence is reported.

References:

GSC P72-53, p56

BCDM Bull 37, p68

Manganese Deposits of Cowichan Lake, H. Sargent, 1939
Minfield 92C116

Cowley, P. Correlation of Rhodonite Deposits on Vancouver Island and Saltspring Island, British Columbia; B.Sc. Thesis, UBC, 1979



5.0 1986 - 1987 PHASES I, II AND III EXPLORATION PROGRAM

5.1 WORK COMPLETED

5.1.1 Phases I and II

Field work for phases I and II of the exploration program on the Mike property was carried out from September 24 to December 12, 1986. Three geologists, two geological technicians and two geophysical technicians spent a total of 55 1/2 man days on the property.

Most logging roads on the property were prospected. Geological mapping at a scale of 1:10,000 covered roughly one third of the claims, with traverses largely restricted to the roads. Mapping at a scale of 1:2,500 was done in areas with interesting mineralization. 125 rock samples and 24 silt samples were collected during this mapping program.

Three showings were trenched using a D7 cat. The trenches total approximately 35m in length, and a total of 38 chip and grab samples were collected.

A grid with 4.3 km of line was established over the main showings. Stations were flagged at 25m intervals on lines 100m apart.

VLF-EM and magnetometer surveys were conducted on the grid with readings taken at each station.

A total of 162 soil samples were collected on the grid.

5.1.2 Phase III

353m of diamond drilling was completed on the property between December 8, 1986 and January 12, 1987. A total of 285 core samples were sent for analysis.

In all phases of the exploration program, a total of 448 rock samples were analysed. All samples (rock, silt and soil) were analysed for Au using an atomic absorption technique and for 30 elements using an induction couple plasma spectrometer (ICP). 58 of the rock samples were fire assayed for Au, and 30 were analysed for Pt, Pd and Rh.

Au geochemical analyses and fire assays were done by Rossbacher Laboratory Ltd. in Burnaby. The 30 element ICP analyses were done by Chemex Labs Ltd. in North Vancouver. Pt, Pd and Rh analyses were done by Acme Analytical Laboratories in Vancouver

5.2 GEOLOGICAL MAPPING AND SAMPLING

5.2.1 Introduction

The first phase of the mapping program on the Mike claims was designed to outline the general geology and to identify areas which needed more detailed investigation. Approximately 20 km of roads were mapped at a scale of 1:10,000 (Fig. 17). During this program several areas with well mineralized quartz veins and shears were identified.

Follow-up 1:2,500 mapping (Fig. 5) was largely restricted to the Mike 4 claim, and covered an area of approximately 200 hectares. One, 14m cat trench was mapped at a scale of 1:50 (Fig. 12).



5.2.2 Geology

The property is underlain by pyroclastics and sediments of the Paleozoic Sicker Group which have been intruded by Triassic gabbros and Jurassic granodiorites to quartz diorites.

The Sicker Group has been divided into four formations. Historically these formations were named Nitinat, Myra, Sediment-Sill and Buttle Lake, by Fyles and Muller. There are some problems, however, applying these divisions to the entire Sicker Group belt since geological environments appear to have varied dramatically within the complex volcanic terrain.

N. Massey (BCMEMP) has recently been mapping in the Cowichan Lake area, including some of the Mike property. He has divided the Sicker Group in this area as follows:

UPPER SILURIAN TO LOWER PERMIAN SICKER GROUP

BUTTLE LAKE SUB-GROUP

MOUNT MARK FORMATION

CAMERON RIVER FORMATION

YOUBOU SUB-GROUP

McLAUGHLIN RIDGE FORMATION

NITINAT FORMATION

Nitinat Formation rocks are typically pyroxene rich pyroclastics and flows.

The McLaughlin Ridge Formation is composed predominately of intermediate composition pyroclastics ranging from cherty tuffs to agglomerates.



The Cameron River Formation is predominately sedimentary in nature, although many units have tuffaceous characteristics. Chert, argillite, siltstone, sandstone and conglomerate are the dominant rock types, with lesser amounts of limestone, pyroclastics and flows.

The Mount Mark Formation is composed of limestone and marble with minor amounts of chert, argillite, siltstone and sandstone. It does not appear to underlie any of the Mike property.

On the Mike property, contacts between these formations appears to be strictly fault related.

The Sicker Group is weakly regionally metamorphosed (probably to lower greenschist facies) and folded about a NW trending fold axis.

Sicker Group rocks have been intruded by gabbroic sills and dykes which are thought to be coeval with Upper Triassic Karmutsen Formation basalts.

Lower to Middle Jurassic grandodiorite and quartz diorite Island Intrusives cut both the Sicker Group and gabbroic rocks. Sicker Group sediments and pyroclastics are commonly hornfelsed and silicified near these intrusive.

Mineralization discovered on the Mike property to date has been in east-west trending shears and quartz veins hosted in Cameron River Formation fine grained sediments and Karmutsen gabbroic dykes. Quartz veins up to 1m wide contain pyrite, pyrrhotite, chalcopyrite, minor arsenopyrite and commonly, anomalous gold values (up to 60.0 g/t or 1.75 oz/ton).

The close association between mineralized quartz veins and a

gabbroic dyke suggests that the gabbro may have been the heat source for the hydrothermal systems.

5.2.3 Lithology Of Formations And Units Of The Sicker Group

1) Nitinat Formation

Devonian or older pyroxene rich pyroclastics (tuffs to agglomerates, 1a,b) of the Nitinat Formation are exposed on the southwest part of the Mike 1 claim.

These rocks are a dark to medium chloritic green colour overall. They generally have a fine grained, dark green, siliceous, tuffaceous matrix with fine grained feldspar and pyroxene crystal fragments up to 1mm. Rounded to sub angular coarse grained feldspar pyroxene porphyry fragments up to several centimeters in diameter make up 20 to 90% of the rock. Strong epidote alteration is common throughout.

2) McLaughlin Ridge Formation (Formerly Nitinat and/or Myra Formations)

Pyroclastics of the McLaughlin Ridge Formation are exposed NE of a strong NW trending fault zone on ('M-8 Fault') the Mike No. 3 claim. The formation in this area has been broken down into the following units.

2c - Tuffaceous Siltstone, Siltstone

Rocks in this unit may be sedimentary or pyroclastic. They are

very fine grained, dark gray to dark brown, massive to well bedded, commonly extremely siliceous, and may grade into feldspar crystal tuffs.

2e - Crystal Tuff, Sandy Tuff

This unit is gradational to both units 2c and 2f. These rocks have a fine grained, siliceous, gray to brown groundmass with up to 40% gray, sub rounded to sub angular to sub hedral feldspar crystal fragments to 1mm. Felty chloritic masses may be alterations of mafic crystal fragments. 3 to 4% pyrite and or pyrrhotite is commonly disseminated throughout.

2f - Lapilli Tuff, Tuff Lapillistone, Agglomerate

These coarse grained pyroclastics have a dark grayish brown siliceous, cherty to coarse grained tuffaceous matrix with 20 to 70% < 1cm to > 5cm angular to rounded lithic clasts. Lithologies of the clasts include: trachytic feldspar porphyry (andesite?), feldspar hornblende porphyry and fine grained siliceous fragments which could be sedimentary or volcanic.

Up to 5% fine grained disseminated pyrrhotite is common in the groundmass.

4) Cameron River Formation (Formerly Myra and/or Sediment-Sill Formations)

The majority of the Mike Group is underlain by sediments of this formation. It has been divided in this area into the following gradational units.



4a - Argillite

Dark brown to black, thinly laminated to massive, soft to extremely siliceous argillite grades into both siltstone and cherty siltstone. It generally contains 1 to 2% fracture filling pyrite and weathers to a dull rusty brown.

4b - Chert, Cherty Siltstone Or Cherty Tuff

Rocks of this unit are generally cryptocrystalline to very fine grained granular. They are siliceous, dark gray to dark brown, massive to well bedded and commonly grade into argillite (4a) or siltstone (4c).

4c - Siltstone

This unit is dark gray to dark brown, massive to thinly laminated and generally siliceous (silicified? hornfelsed?). These siltstones commonly contain sedimentary features such as load casts, soft sediment deformations, and graded beds. In most cases where these features were observed, the beds were 'tops up'.

4d - Sandstone

This unit is similar to the siltstones (4c) previously described except that the grain size is slightly larger. The two units are gradational, commonly interlayered and together make up the predominant rock type on the property.

Silicification (hornfelsing?) may be caused by the nearby granodioritic intrusives.

4f - Heterolithic Conglomerate and Sedimentary Breccia

Conglomerate beds range in thickness from a few meters to greater than 100m. They generally have a greenish-gray coarse grained sandstone matrix with 20 to 30% rounded to angular lithic fragments up to 30cm (average 1-2cm) in diameter. Clasts are composed of fine to coarse grained siliceous sediments (some well bedded), trachytic feldspar porphyry and hornblende feldspar porphyry.

5.2.4 Lithology Of Intrusive Rocks

6) Triassic Karmutsen Formation

6d - Gabbro

The gabbro intrusive mapped on the Mike property appears to be conformable with bedding in some places and to cross-cut it in others. It is approximately 100 to 200m thick and somewhat flat lying, dipping 20° to 40° to the northwest.

It is a medium grained equigranular plutonic with a colour index of approximately 50 to 60. Original hornblende crystals are largely altered to chlorite and form a pseudo groundmass for 25% (+) stubby white subhedral feldspar crystals averaging 2mm in length.

The gabbro is metal rich. It contains 5% of a black sub-metallic, non magnetic mineral (probably ilmenite), 1-2% pyrite and traces of chalcopyrite. In some places it contains up to 5% pyrite and 2 to 3% pyrrhotite.

A chill margin a few metres wide is typically developed along the dyke selvage. In some places it has a distinctive flower porphyry texture.

9) Jurassic Island Intrusives

9b - Mafic Dykes

These diabase dykes are generally less than 2 metres in width. They are southeast trending, have distinct chill margins, are commonly amygdaloidal and in some cases have acicular hornblende phenocrysts to 0.5cm in length.

The dykes are found cross-cutting all units previously mentioned and are possibly the youngest rocks on the property.

9f - Feldspar Porphyry

Feldspar porphyry dykes in this area are generally less than 3 metres in width and strike at approximately 90°. They contain 25% white stubby feldspar phenocrysts up to 1cm (average 3-4mm) in diameter, hornblende phenocrysts and rare rounded quartz phenocrysts in a fine grained dark grey to brown groundmass.

These dykes may be offshoots from the nearby large plugs or sills of quartz diorite. They are seen cross-cutting both the Cameron River Formation sediments and the Triassic gabbroic dykes.



9q - Quartz Diorite

Quartz diorite intrusive bodies on and near the Mike property are up to a kilometre wide by several kilometres long. They are typically medium grained equigranular plutonics with 75% (+) feldspar (mainly plagioclase), 15% hornblende, up to 10% quartz and minor amounts of biotite.

5.2.5 Structural Geology

Contacts between formations in the Sicker Group in this area appear to be fault related. On the eastern part of the claim group McLaughlin Ridge Formation pyroclastics are in fault contact with Cameron River Formation sediments. This fault is a strong shear zone several meters wide which shows up as a distinct lineation on airphotos. It has been named 'M8 Fault' because of its proximity to M8 road.

Bedding strikes to the northwest on both sides of 'M8 Fault' but dips are steep to the northeast on the northeast side and moderate to the southwest on the southwest side.

To the west, on the Mike 1 claim, bedding strikes to the northeast indicating that a syncline with a fold axis at 230/38 trends through the area. A second syncline from a later (?) folding event has a fold axis which lies at 30/32 (Fig. 17). Orientations of these folds are only tentative because so few bedding attitudes were taken.

Both of these folds lie in a 700m wide northeast trending belt of sediments between a gabbroic dyke on the southeast and a quartz diorite plug on the northwest. One syncline axis may continue along the entire length of this belt (Fig. 17).



In summary, there have been at least three folding events in the Mike Group area. The main orogeny caused regional folding along a northwest trending axis. Two more folding events caused local distortion along northeast trending axes. It is possible that the gabbro dyke was folded during one of these later events.

Several northeast and northwest trending fault zones cut the property, the strongest of which appears to be the M8 Fault.

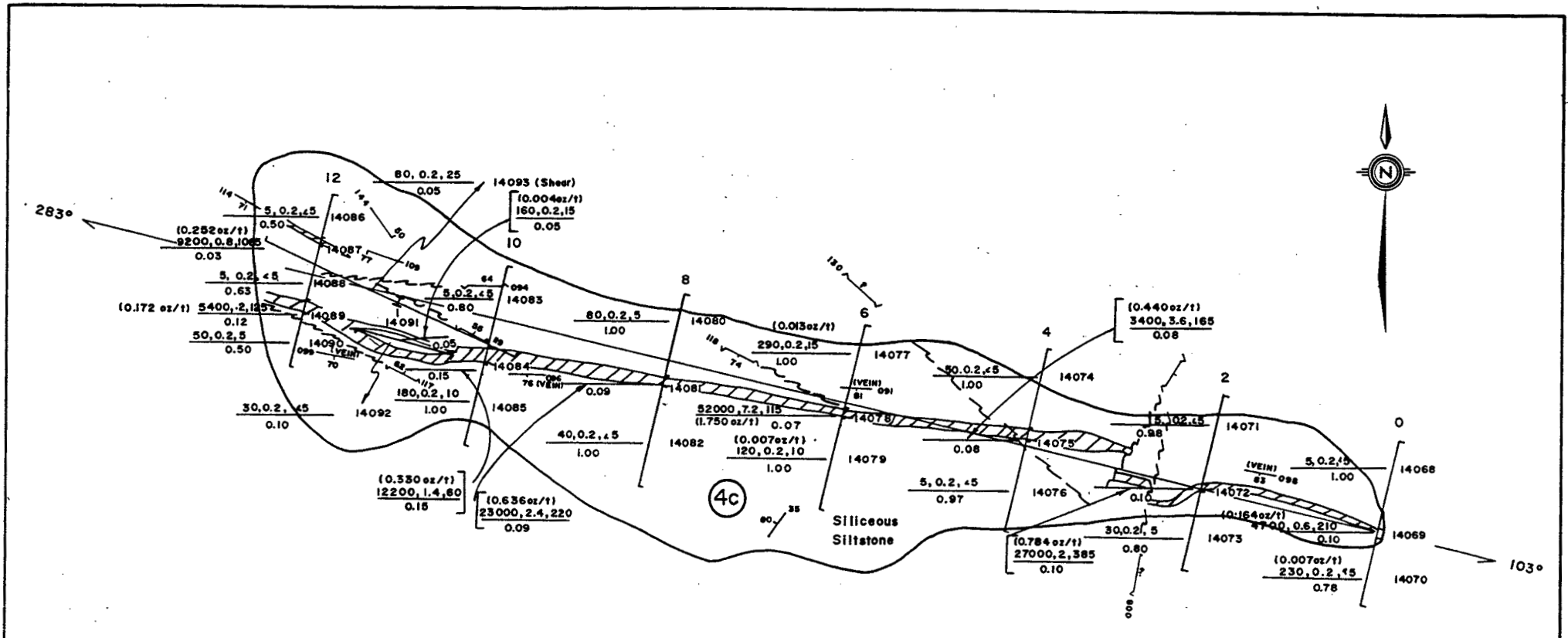
5.2.6 Mineralization

Mineralization discovered on the Mike Property to date has been restricted to shears and quartz veins, the strongest of which occur within the narrow belt of Cameron River Formation sediments between the gabbro and quartz diorite intrusives (Fig.'s 5, 17).

These sediments are moderately folded, silicified (+ hornfelsed?) and fractured, and generally contain 1 to 2% fracture related pyrite.

The main showings on the property are five roughly east-west trending quartz veins. They are probably located on the hinge of a fold and lie a few hundred meters west of the gabbro intrusive.

The uppermost (southernmost) vein cuts across road S11A. The vein is predominantly bluish-gray vuggy quartz ranging in width from 5 to 20cm within a shear zone up to 2m wide (98/83 SW) (Fig.'s 12a and b). Vein material contains up to 5% pyrite, 1 to 2% chalcopyrite and traces of arsenopyrite. Sampling of a trench on this structure yielded an average of 18.617 g/t Au (0.543 oz/ton) over 0.1m along 14m of strike length. The highest grade sample assayed 60.0 g/t Au (1.75 oz/ton) across 0.07m, or 3.120 g/t Au (0.091 oz/ton) over 1.5m. Host siltstones and sandstones contained elevated gold values ranging up to 290 ppb across one metre.




ANALYSES

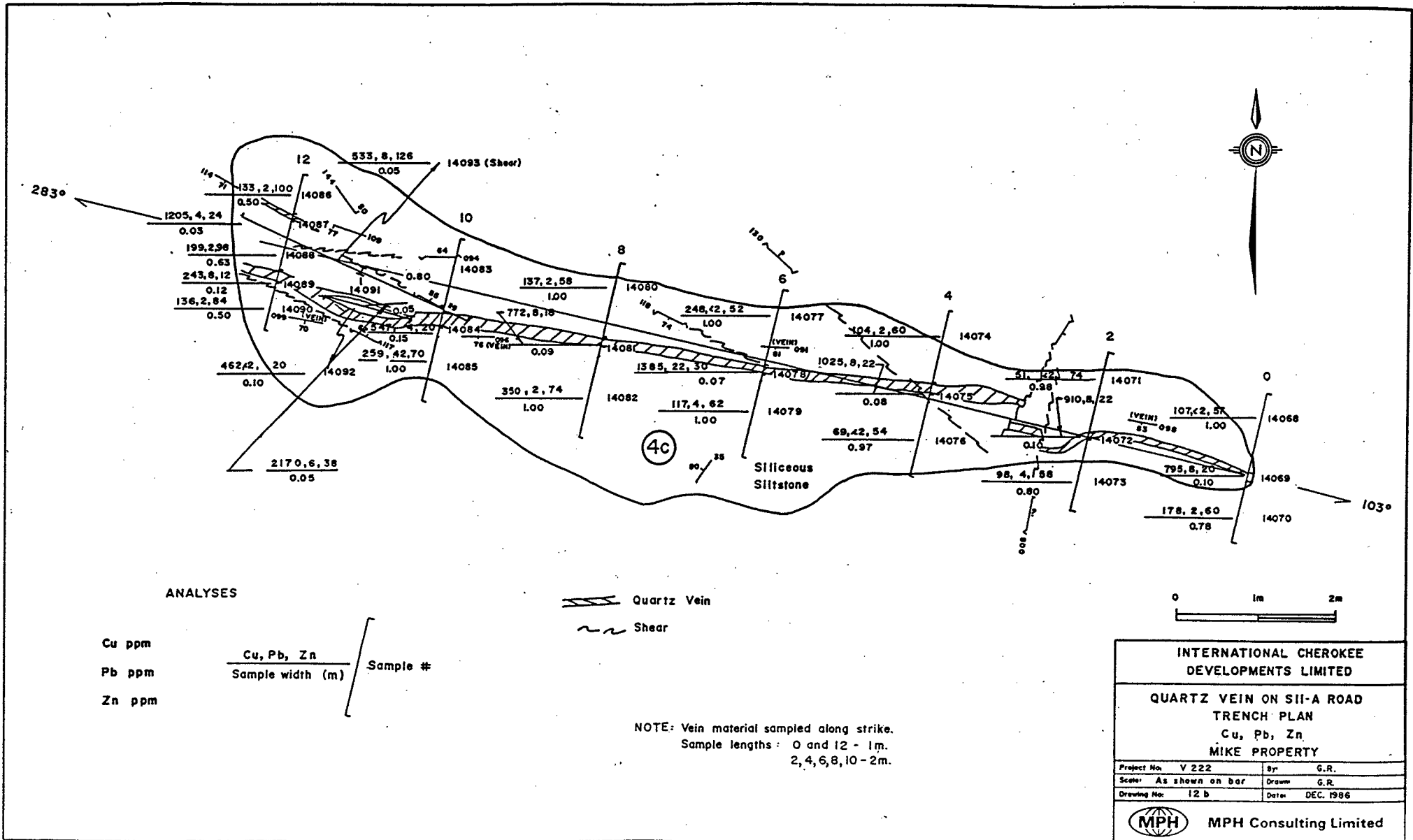
Au ppb
 Ag ppm
 As ppm

Au, Ag, As,
 Sample width (m) Sample #

▨▨▨▨▨ Quartz Vein
 ~~~~~ Shear

NOTE: Vein material sampled along strike.  
 Sample lengths: 0 and 12 - 1m.  
 2, 4, 6, 8, 10 - 2m.

|                                                                                                                     |                 |
|---------------------------------------------------------------------------------------------------------------------|-----------------|
| INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED                                                                         |                 |
| QUARTZ VEIN ON SII-A ROAD TRENCH PLAN Au, Ag, As MIKE PROPERTY                                                      |                 |
| Project No. V 222                                                                                                   | By: G.R.        |
| Scale: As shown on bar                                                                                              | Drawn: G.R.     |
| Drawing No. 12 a                                                                                                    | Date: DEC. 1986 |
|  <b>MPH Consulting Limited</b> |                 |





A feldspar porphyry dyke sub-parallel the quartz vein a few meters to the south. Their relationship is unclear.

Four other quartz veins were discovered within 250m to the NE of the vein on S11A. All have similar mineralogy and characteristics to the vein described above. Three of the veins have an approximate 20m separation. All strike roughly east-west. A summary of the best values from these veins is shown in table 1.

Table 1

| VEIN | LOCATION                              | ASSAY (AU) |        | WIDTH (m) |
|------|---------------------------------------|------------|--------|-----------|
|      |                                       | grams/ton  | oz/ton |           |
| 1    | 1+00E, 2+34N<br>(West end of M8 road) | 27.086     | 0.790  | 0.10      |
| 2    | 1+00E, 2+14N                          | 22.286     | 0.650  | 0.05      |
| 3    | 1+00E, 1+95N                          | 1.131      | 0.033  | 0.10      |
| 4    | 1+00E, 1+48N                          | 12.000     | 0.350  | 0.02      |

All five of these veins have been tested by diamond drilling, results of which will be discussed in a later section.

A second area of interesting mineralization occurs on S11A road a few meters west of the west fork of Ridgeway Creek. A 10cm shear zone (133/65NW) cuts siliceous siltstone and is mineralized with up to 25% pyrrhotite and pyrite. Gold values are low (up to 20 ppb) but copper values range up to 0.5% and Ag, Co and W values are elevated (Fig.'s 5, 6, 11).

An area of well mineralized (pyrite and chalcopyrite) sub-outcropping quartz veins occurs on the Mike #1 Claim near the SE contact of the same gabbro body associated with the Au bearing veins between S11A and M8 roads (Fig's 5, 11). Samples (3445-

3449, 14542) of this vein material contained up to 200 ppb Au, 0.9% Cu, 3.2 ppm Ag and 1705 ppm As. The area is of interest because of its relationship to the gabbroic body and also because of its proximity to a possible fault separating the gabbro and Cameron River Formation from Nitinat Formation (Fig.'s 5, 17).

Several pieces of siliceous pyrrhotite rich float (protolith uncertain) collected on M8 road near the 'M8 Fault' contained anomalous Ni (up to 220 ppm) and Co (up to 412 ppm) (Fig.'s 17, 18).

### 5.3 SOIL GEOCHEMISTRY

A grid was established in the area with the five Au bearing quartz veins between S11A and M8 roads. 162 samples of 'B' horizon soil were collected at 25m intervals on lines 100 meters apart. Sample depth averaged 20cm.

Samples were analysed for Au using an atomic absorption technique, and for 30 elements using an induction couple plasma spectrometer (ICP).

Only Au, Ag and As are plotted (Fig. 7), since analyses of other elements do not appear to define any anomalous zones. Threshold values used for Au, Ag and As are shown in Table 2.

Table 2

| ELEMENT | THRESHOLD |
|---------|-----------|
| Au      | 20 ppb    |
| Ag      | 0.4 ppm   |
| As      | 23 ppm    |



For Au and Ag the threshold was taken as anything above the detection limit. For As, the 95th percentile value was derived from the cumulative frequency histogram. This number is considered to be the threshold of anomalous values. Statistical reports of soil geochemistry data are included in the appendix.

The Au plot outlines the most striking anomalies, with values ranging up to 380 ppb (Fig. 7). Four strong anomalies on line 3+00E at 1+25S (90 ppb), 0+75N (120 ppb), 1+50N (380 ppb), and 4+00N (80 ppb) are underlain by gabbroic rocks thought to be related to Au mineralization in adjacent veins. No known structures are related to these anomalies, but mapping is incomplete.

A strong Au anomaly between 1+00E, 1+50N (190 ppb Au) and 0+00W, 1+25N (70 ppb) has a semi-coincident As anomaly at 1+00E, 1+00N (105 ppm). Vein no 4 of table 1 outcrops at 1+00E, 1+50N. It contained 12.0 g/t Au (0.35 oz/ton) and 840 ppm As, confirming the validity of soil sampling as an exploration tool in this area. Line 0+00W has not yet been prospected for structures which may be related to the Au in soil anomaly at 1+25N (70 ppb).

A weak Au anomaly (40 ppb) is located at 0+50W on the baseline and may be related to an extension of the quartz vein exposed in the trench on S11A.

Coincident Au (70 ppb) and As (55 ppm) anomalies at 2+00E, 1+75S have an adjacent Ag anomaly (0.4 ppm) at 2+00E, 1+50S. These samples are immediately down hill from the gabbro - conglomerate contact. A sample (14002) from a 0.5m limonitic shear developed along the contact contained 80 ppb Au, 1.6 ppm Ag, 699 ppm Cu, 1030 ppm As and elevated Mo, Sb and Co values.

The area around an Au anomaly (60 ppb) at 1+00W, 3+00N has not



been mapped.

In summary, most metal in soil anomalies are related to the gabbroic intrusive or to known mineralized structures. The strongest anomaly is a 300m long east-west trending discontinuous zone extending from 3+00E, 1+50N to 0+00W, 1+25N. It is open to the east. The anomaly is probably caused by an east-west trending mineralized structure or structures, possibly one of those observed on line 1+00E.

#### 5.4 GEOPHYSICAL SURVEYS

##### 5.4.1 VLF-EM Survey

A VLF-EM survey was conducted on the grid using a Sabre 27 tuned to receive signals transmitted from Cutler, Maine. Dip angle and horizontal field strength readings were taken at each station. The direction to the transmitter was 100°.

Both the grid orientation and transmitting station were chosen to delineate east-west trending structures. Unfortunately, stratigraphy trends at 90° to this and the results are somewhat confusing.

Profile plots of the horizontal field strength, dip angle and Fraser filtered dip angle were made (Fig. 10). Fraser filtered dip angles were plotted and contoured in plan (Fig. 9).

In general, field strength increased from north to south simply because signal reception was better at higher elevations.

Several positive peaks in the Fraser filtered data indicate possible conductors. In most cases, however, these peaks do not



have corresponding field strength highs and are of questionable interest.

Two exceptions occur at 1+00E, 2+75N and 2+00E, 2+25N (and possibly at 3+00E, 0+75N). An apparent offset of the gabbro contact at 3+00E, 0+75N may be fault related and could correspond to this weak, northwest trending conductor.

The Fraser filtered dip angle contour plot (Fig. 9) shows several weak, east-west trending 'anomalies' which may not be valid conductors.

#### 5.4.2 Magnetic Survey

Measurements of the total magnetic field strength were made at each station on the grid using a Scintrex MP-2 proton magnetometer (Fig. 8). Corrections for diurnal variations were made using a Scintrex MP-2 magnetometer base station.

The average magnetic field strength in areas underlain by sediments appears to be between 56100 and 56300 gammas. Above the gabbroic rocks on line 3+00E the magnetic field is markedly stronger, with readings ranging up to 56739 gammas. This higher background above the gabbros is not surprising since the rock is weakly magnetic.

Several small, weak anomalies occur in areas underlain by sediments. On line 1+00E at 1+40N a high of 56300 gammas lies adjacent a low of 55991 gammas. Vein No. 4 (Table 1) with 12.0 grams/ton Au (0.35 oz/ton) is located at 1+50N, between the magnetic high and low. Very weakly anomalous zones at 2+15N and 2+35N on line 1+00E are coincident with veins 1 and 2. There appears to be no reason why these veins would cause magnetic anomalies and any relationship is tentative. There are, however,



a few other magnetic anomalies which warrant investigation.

Three weak anomalies on line 0+00W between 2+00N and 2+50N may be related to vein no. 1. No mapping has been done in the area. Other one or two station anomalies occur at (2+00W, 0+25N), (3+00W, 0+50S) and (3+00W, 2+20S). None of these areas have been investigated.

If it can be confirmed that veins are related to the weak magnetic anomalies, the magnetometer will be a very useful exploration tool in this area.

## **5.5 CORRELATION OF GEOPHYSICS, GEOCHEMISTRY AND GEOLOGY:**

### **A SUMMARY**

Figure 11 is a composite map of the magnetic survey with VLF-EM conductors, general geology, and anomalous rock and soil geochemistry superimposed.

The magnetic survey outlines the gabbro body as a series of high values. Weakly anomalous values outside of this area may be related to quartz veins.

A probable VLF-EM conductor trends southeast from 1+00E, 3+00N to 3+00E, 0+75N. This may be outlining a fault causing an offset of the gabbro - conglomerate contact. 3+00E, 0+75N also has coincident moderate Au and As in soil anomalies.

A series of high Au and As values in soils are found within the area underlain by gabbro. A strong coincident Au and As in soil anomaly at 1+00E, 1+50N corresponds to vein no. 4. This anomaly extends westward to line 0+00 and may correlate with a strong Au

anomaly on line 3+00E, 200m to the east. These anomalies suggest that vein no. 4 may extend east and west from its limited exposure on line 1+00E.

Coincident strong arsenic and moderate gold in soil anomalies correspond with an arsenide rich shear zone at the gabbro - conglomerate contact.

The association between the gabbroic intrusive and Au bearing mineralized quartz veins and shears on the property is quite striking. Mineral occurrences have been discovered along the flanks of the gabbro in the host sediments wherever mapping has taken place.

## 5.6 DIAMOND DRILLING

### **5.6.1 Drilling Summary**

353m of diamond drilling was completed in four holes on the Mike Property. The program was designed to test five parallel Au bearing veins, hosted in Cameron River Formation sediments between S11A and M8 roads (Fig.'s 5, 11).

Holes M86-1, 2 and 3 tested the trenched quartz vein on S11A road. This vein averaged 18.617 g/t Au (0.543 oz/ton) over 0.1m along 14m of strike length in the trench. The holes were drilled at a dip of 45° and fanned horizontally to intersect the vein 20m apart at a depth of 25m.

Hole M87-1 was drilled to test four Au bearing quartz veins exposed on 1+00E between 1+48N and 2+34N (west end of M8 road). Au values from these surface showings are listed in table 1 and shown on the drill section (Fig. 16).

Core from the program is presently being stored at MPH Consulting Limited's field office at 331 St. Julian Street in Duncan, B.C.

Diamond drill hole data and logs are in appendix V. Drill sections are shown in figures 13 to 16.

### 5.6.2 Lithologies and Mineralization in Drill Holes

#### HOLE M86-1

Hole M86-1 (Fig. 13) was drilled in well bedded, siliceous, dark greenish gray to brownish gray fine grained sandstones, siltstones and argillites with narrow (< 2m) intervals of quartz-feldspar porphyry and diabase dykes. The vein zone intersection was 1.24m long (approximately 0.95m true width) and was made up of quartz veins on or near the selvages of a strong shear zone. The hanging wall vein is approximately 5cm wide (true thickness). It is composed of vuggy, blue-gray quartz with < 1% pyrrhotite and contains 1980 ppb (2.06 g/t or 0.06 oz/ton) Au. The footwall vein is 10cm wide (true width) and composed of bluish-gray quartz with 2-3% fine grained disseminated pyrite and traces of chalcopyrite and arsenopyrite. It also contains 5% fine grained soft earthy black masses up to 3mm which may be altered arsenides. The vein contained 920 ppb (1.03 g/t or 0.03 oz/ton) Au.

#### HOLE M86-2

Hole M86-2 (Fig. 14) was drilled to intersect the vein to the east of hole M86-1. Lithologies in the two holes are similar. Three mineralized veins were intersected within a 5m zone. The first was a 1cm wide quartz stringer with 10% pyrite. This material contained 5900 ppb (5.486 g/t or 0.160 oz/ton) Au over a true sample width of approximately 7cm. The second and strongest vein



(probably correlateable to the vein in the trench) is composed of vuggy bluish-gray quartz with 20% pyrite and 5% black earthy material. This vein contained 3000 ppb (2.812 g/t or 0.082 oz/ton) Au. A third quartz stringer zone averaged 1740 ppb (1.371 g/t or 0.04 oz/ton) Au over 0.4m true width.

These three veins are separated by relatively unaltered and unsheared siltstone, suggesting that the shear zone may be weakening to the east.

A summary of vein intersections for holes M86-1 and 2 is given in table 2.

Table 2

| HOLE  | APPROXIMATE<br>INTERSECTION DEPTH (M) | GRADE AU |        | APPROXIMATE TRUE<br>SAMPLE WIDTH (M) |
|-------|---------------------------------------|----------|--------|--------------------------------------|
|       |                                       | G/T      | OZ/TON |                                      |
| M86-1 | 35.5                                  | 2.06     | 0.06   | 0.10                                 |
|       | 36.5                                  | 1.03     | 0.03   | 0.16                                 |
| M86-2 | 28.9                                  | 5.49     | 0.16   | 0.08                                 |
|       | 30.5                                  | 2.74     | 0.08   | 0.21                                 |
|       | 34.5                                  | 0.69     | 0.02   | 0.41                                 |
|       | 34.7                                  | 3.43     | 0.10   | 0.11                                 |

#### HOLE M86-3

This hole intersected a series of silicified, well bedded sandstones, siltstones and argillites cut by narrow diabase dykes (Fig. 15). Up to 5% fine grained disseminated pyrrhotite is common throughout. No recognizable structure was intersected and gold values are low.



## HOLE M87-1

From the collar to 91.7m the hole was in well bedded siliceous sandstones and siltstones. From 91.7m to the end (181.35m) the hole was in medium grained gabbro cut by a few narrow diabase dykes.

Several well mineralized quartz veins were intersected both in the sediments and the gabbro. A summary of grades from these veins is shown in table 3.

Table 3

| DEPTH (M) | GRADE AU |        | APPROXIMATE TRUE<br>WIDTH (M) | CORRELATION TO<br>SURFACE SHOWING |
|-----------|----------|--------|-------------------------------|-----------------------------------|
|           | G/T      | OZ/TON |                               |                                   |
| 4.2       | 1.20     | 0.035  | 0.14                          | Vein No. 1                        |
| 11.1      | 0.03     | 0.001  | 0.41                          |                                   |
| 49.3      | 2.85     | 0.083  | 0.10                          | Vein No. 2 (?)                    |
| 138.2     | 1.68     | 0.049  | 0.24                          | Vein No. 4 (?)                    |

The vein at 4.2m is composed of slightly vuggy blue-gray quartz with 2% each of pyrite and chalcopyrite, < 1% pyrrhotite and a trace of arsenopyrite. There is no obvious alteration around the vein.

Veins in the gabbro have a different character to those seen cutting the sediments. They are up to 1m wide, non vuggy and well mineralized with up to 20% pyrrhotite and several percent chalcopyrite.

The gabbro is typically metal rich with 5% of a non magnetic black



metallic mineral (ilmenite?), 1 to 2% (locally to 5%) disseminated and fracture controlled pyrite and < 1% chalcopyrite predominantly along fractures. Copper content in fresh gabbro is typically between 200 and 400 ppm, whereas in the sediments it is generally less than 100 ppm.

30 samples of gabbro and vein material were analysed for platinum, paladium and rhodium. All samples were non anomalous.

## 6.0 RECOMMENDED WORK PROGRAM

Phases I, II and III of the Mike property exploration program have identified several small Au bearing quartz veins and shears. More work is warranted in an attempt to identify larger mineralized structures.

### 6.1 PLAN

- a) Location of legal corner posts will be re-checked and confirmed. Any fractions or open ground in the area will be staked.
  
- b) Detailed geological mapping will be finished on the grid. Geochemical and geophysical anomalies will be investigated. This will likely lead to the discovery of other showings. It will also hopefully indicate how useful the magnetic and VLF-EM surveys are as exploration tools.



- c) Reconnaissance geological mapping at a scale of 1:10,000 will be completed over the entire property to get a general geological picture. This mapping will identify areas of mineralization and areas which are geologically favourable for mineralization (i.e., fault zones and gabbroic intrusives). Such areas will be mapped in detail.
- d) Known fault zones will be prospected for mineralization.
- e) 1:2500 geological mapping will be conducted along the trend of the gabbro dyke. Specific attention will be paid to those areas where the gabbro contacts major structural breaks. Au mineralization in the area occurs in small structures apparently associated with the gabbro, and hopefully larger structures in its vicinity will be mineralized also. Three such targets are:
  - 1) At the southwest end of the gabbro dyke it is in apparent fault contact with Nitinat Formation pyroxene rich pyroclastics. A few well mineralized quartz veins with anomalous gold values occur in this area.
  - 2) A northwest trending lineation visible on air photos cuts the gabbro and trends into an area near Ridgeway Creek on S11A road with copper and cobalt rich sulphide bearing shears.
  - 3) To the north the gabbro trends into the Chemainus River Valley which may be a major structural break.
- f) A source for placer gold in Ridgeway Creek has not been found. The drainage basin warrants more detailed geological mapping.



- g) The existing soil sample grid will be expanded along the gabbro contact. Other grids may be established in areas selected during the mapping.
- h) Magnetometer, VLF-EM and possibly IP surveys will be considered on established grids.
- i) A few quartz vein showings will be stripped with a cat.
- j) Diamond drilling may be proposed, depending on the results of the previous exploration activities.

## 6.2 PHASE IV BUDGET

### FIELDWORK

| <u>Personnel</u>  | <u>No.</u> | <u>Days</u> | <u>Rate</u> | <u>Cost</u>  |        |
|-------------------|------------|-------------|-------------|--------------|--------|
| Geologist         | 1          | 17          | 350         | 5,950        |        |
| Geologist         | 1          | 17          | 250         | 4,250        |        |
| Geophysical Tech. | 1          | 10          | 250         | 2,500        |        |
| Soil Samplers     | 2          | 7           | 150         | <u>2,100</u> |        |
|                   |            |             |             | 14,800       | 14,800 |

| <u>Equipment Rental</u> | <u>No.</u> | <u>Days</u> | <u>Rate</u> | <u>Cost</u> |       |
|-------------------------|------------|-------------|-------------|-------------|-------|
| 4WD Truck               | 1          | 17          | 110         | 1,870       |       |
| Rock Saw                | 1          | 17          | 15          | 255         |       |
| VLF-EM                  | 1          | 5           | 25          | 125         |       |
| Mag + Base Stn.         | 1          | 5           | 75          | <u>375</u>  |       |
|                         |            |             |             | 2,625       | 2,625 |

Accomodation

58 Mandays @ 45 2,610

Disbursements

## Trenching:

Cat + Low Bed, 2 days @ 1,000 2,000

## Analyses:

| Type | No. | For          | Rate  | Cost       |       |
|------|-----|--------------|-------|------------|-------|
| Rock | 200 | Au+30 el.ICP | 12.50 | 2,500      |       |
| Rock | 30  | Au Assay     | 25.00 | 750        |       |
| Soil | 500 | Au+30 el.ICP | 12.50 | 6,250      |       |
| Silt | 20  | Au+30 el.ICP | 12.50 | <u>250</u> |       |
|      |     |              |       | 9,750      | 9,750 |

Miscellaneous 500  
12,250

## Administration:

15% of Disbursements (12,250)= 1,838  
Total Disbursements 14,088 14,088

Fieldwork Sub Total 34,123

Contingency: (15%) 5,118

Total Fieldwork Costs 39,241 39,241

CONSULTING

| <u>Personnel</u>            | <u>No.</u> | <u>Days</u> | <u>Rate</u> | <u>Cost</u> |       |
|-----------------------------|------------|-------------|-------------|-------------|-------|
| Geological<br>Consultant    | 1          | 5           | 475         | 2,375       |       |
| Geophysical<br>Consultant   | 1          | 2           | 475         | <u>950</u>  |       |
|                             |            |             |             | 3,325       | 3,325 |
| <br><u>Equipment Rental</u> |            |             |             |             |       |
| 4WD Truck                   | 1          | 5           | 110         |             | 550   |
| <u>Accomodation</u>         |            |             |             |             |       |
| 5 Mandays @ 45              |            |             |             |             | 225   |
| <br><u>Disbursements</u>    |            |             |             |             |       |
| Miscellaneous               |            |             |             |             | 500   |
| <br>Administration:         |            |             |             |             |       |
| 15% of Disbursements        |            |             |             | <u>75</u>   |       |
|                             |            |             |             | 4,675       |       |
| Contingency: (15%)          |            |             |             | <u>701</u>  |       |
| Consulting Total            |            |             |             | 5,376       | 5,376 |

REPORT

| <u>Personnel</u>                 | <u>No.</u> | <u>Days</u> | <u>Rate</u> | <u>Cost</u> |              |                       |
|----------------------------------|------------|-------------|-------------|-------------|--------------|-----------------------|
| Geologist                        | 1          | 10          | 350         | 3,500       |              | 3,500                 |
| <br><u>Disbursements</u>         |            |             |             |             |              |                       |
| Supplies                         |            |             |             | 200         |              |                       |
| Drafting                         |            |             |             | 1,700       |              |                       |
| Copying, Reproductions           |            |             |             | 600         |              |                       |
| Typing                           |            |             |             | 600         |              |                       |
| Miscellaneous                    |            |             |             | <u>195</u>  |              |                       |
| Disbursements Sub Total          |            |             |             | 3,295       |              |                       |
| Administration:                  |            |             |             |             |              |                       |
| 15% of Disbursements             |            |             |             | <u>494</u>  |              |                       |
| Disbursements Total              |            |             |             | 3,789       | <u>3,789</u> |                       |
| Report Sub Total                 |            |             |             |             | 7,289        |                       |
| Contingency (15%)                |            |             |             |             | <u>1,093</u> |                       |
| Report Total                     |            |             |             |             | 8,383        | <u>8,383</u>          |
| <br>Estimated Total Project Cost |            |             |             |             |              | <br>\$53,000<br>===== |



**6.3 SCHEDULE**

MIKE PROPERTY PHASE IV - PROPOSED WORK SCHEDULE

|                       | Week 1  | Week 2  | Week 3  | Week 4  | Week 5  |
|-----------------------|---------|---------|---------|---------|---------|
|                       | 1234567 | 1234567 | 1234567 | 1234567 | 1234567 |
| MAPPING               | _____   | _____   | _____   |         |         |
| SOIL SAMPLING         | _____   | _____   |         |         |         |
| GEOPHYSICAL SURVEYING |         | _____   |         |         |         |
| SAMPLE ANALYSES       |         | -----   |         |         |         |
| CONSULTING            | _____   | _____   | _____   |         |         |
| REPORT                |         |         |         |         | _____   |



## 7.0 CONCLUSIONS

The Mike property is underlain by Sicker Group pyroclastics and sediments of the Nitinat and Cameron River Formations. These rocks appear to have undergone three phases of deformation. Regional folding has a northwest trending fold axis and smaller, local distortions have northeast trending axes. Sicker Group rocks on the property have been intruded by a Triassic gabbroic dyke and a Jurassic Island Intrusion quartz diorite plug (sill?).

Mineralization discovered on the property to date is largely restricted to shears and quartz veins. Five easterly trending quartz veins with highly anomalous Au and As values (Au up to 60.0 grams/ton or 1.75 oz/ton) and several others with moderately anomalous gold values occur along the flanks of a gabbroic intrusive. This relationship between gold mineralization and the gabbro suggests that the gabbro may have been the heat source which caused fluid circulation and vein formation in fracture systems.

Au bearing quartz veins in this area are also enriched in Ag, As and Cu. Soil geochemistry in areas of known mineralization has corresponding Au and As anomalies. Ag and Cu anomalies are weak and do not define mineralized zones.

The VLF-EM survey tentatively defined a NW trending fault zone, but did not outline mineralized structures. It may be of little use in the exploration for gold bearing structures in this area.

Weak magnetic anomalies are coincident with Au bearing veins 1, 2 and 4. More mapping is required to validate such a relationship. The magnetic survey also clearly defined the gabbro - sediment contact. This contact is an important exploration target and in areas of heavy overburden the magnetometer will be a useful tool.



Small, Au bearing veins are abundant on the property and more exploration work is warranted to locate larger mineralized structures.

#### RECOMMENDATIONS

On the basis of encouraging results from phases I, II and III of the exploration program it is recommended that phase IV be considered at an estimated cost of \$53,000.

The program would consist of regional mapping with detailed mapping, soil sampling, magnetic and possibly VLF-EM surveys conducted in areas of interest. Specific attention would be paid to the flanks of the gabbroic dyke, especially in areas of major structural breaks.

Ultimately, the goal of the phase IV program is to identify Au bearing mineralized structures with significant tonnage potential. If favourable results are obtained, a drill program will be recommended.

Respectfully submitted

MPH CONSULTING LIMITED

A handwritten signature in cursive script that reads "Gordon J. Allen". The signature is written over a faint circular stamp or seal.

Duncan, B.C.  
February 27, 1987

Gordon J. Allen, P. Geol.






**CERTIFICATE**

I, Gordon J. Allen, do hereby certify;

- 1) I am a graduate in geology of the University of British Columbia (B.Sc. 1975).
- 2) I have practised as a geologist in mineral exploration for twelve years.
- 3) I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
- 4) Opinions, conclusions and recommendations contained herein are based on field work performed by myself and other MPH personnel between October 1986 and January, 1987.
- 5) I own no direct, indirect, or contingent interests in the subject property, or shares or securities of International Cherokee Developments Limited or associated companies.



*Gordon J. Allen*

Gordon J. Allen, P. Geol.

Duncan, B.C.

February 27, 1987



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APPENDIX I

LIST OF PERSONNEL  
AND  
STATEMENT OF EXPENDITURES



LIST OF PERSONNEL AND

STATEMENT OF EXPENDITURES

The following expenses have been incurred on the Mike property as defined in this report for the purposes of mineral exploration between the dates of September 24, 1986 and March 9, 1987.

PERSONNEL

|                               |   |     |  |           |
|-------------------------------|---|-----|--|-----------|
| T. G. Hawkins, P. Geol.       |   |     |  |           |
| 3 Days                        | @ | 475 |  | 1,425.00  |
| J. Roth, M.Sc.                |   |     |  |           |
| 1 Day                         | @ | 450 |  | 450.00    |
| 4 Hours                       | @ | 70  |  | 280.00    |
| G. Allen, P. Geol.            |   |     |  |           |
| 49 Days                       | @ | 350 |  | 17,150.00 |
| J. Getsinger, PhD.            |   |     |  |           |
| 6.25 Hours                    | @ | 50  |  | 312.50    |
| T. Hayes, Field Coordinator   |   |     |  |           |
| 5.5 Days                      | @ | 250 |  | 1,375.00  |
| P. Slominski, Sr. Field Tech. |   |     |  |           |
| 3 Days                        | @ | 250 |  | 750.00    |
| G. Roste, B.Sc                |   |     |  |           |
| 24 Days                       | @ | 150 |  | 3,600.00  |
| D. Ames, B.Sc.                |   |     |  |           |
| 2 Days                        | @ | 150 |  | 300.00    |



|                             |   |     |                  |           |
|-----------------------------|---|-----|------------------|-----------|
| H. MacIsaac, B.Sc.          |   |     |                  |           |
| 2 Days                      | @ | 150 | 300.00           |           |
| G. Royer, B.Sc.             |   |     |                  |           |
| 6.5 Days                    | @ | 150 | 975.00           |           |
| B. Thomae, B.Sc.            |   |     |                  |           |
| 2.5 Hours                   | @ | 35  | 87.50            |           |
| H. Eygel, B.Sc.             |   |     |                  |           |
| 4.5 Hours                   | @ | 35  | 157.50           |           |
| H. Chaudet, Field Tech.     |   |     |                  |           |
| 13 Days                     | @ | 150 | 1,950.00         |           |
| L. Pham, Field Tech.        |   |     |                  |           |
| 10 Days                     | @ | 150 | 1,500.00         |           |
| C. Campbell, Field Drafting |   |     |                  |           |
| 36 Hours                    | @ | 10  | 360.00           |           |
| L. Woodgate, Field Drafting |   |     |                  |           |
| 7.25 Hours                  | @ | 10  | 72.50            |           |
|                             |   |     | <u>31,045.00</u> | 31,045.00 |

EQUIPMENT RENTAL

|              |                |     |                 |          |
|--------------|----------------|-----|-----------------|----------|
| 4x4 Truck    | 50 Truckdays @ | 90  | 4,500.00        |          |
| Rock Saw     | 18 Days @      | 15  | 270.00          |          |
| Pajari       | 10 Days @      | 15  | 150.00          |          |
| Magnetometer | 2 Days @       | 150 | 300.00          |          |
| VLF-EM       | 1 Day @        | 50  | 50.00           |          |
|              |                |     | <u>5,270.00</u> | 5,270.00 |



ACCOMODATION AND FOOD

114.5 Mandays @ 40

4,580.00

DISBURSEMENTS

Analyses

|                      |         |          |
|----------------------|---------|----------|
| 448 Rocks (Au, ICP)  | @ 11.95 | 5,353.60 |
| 162 Soils (Au, ICP)  | @ 10.60 | 1,717.20 |
| 24 Silts (Au, ICP)   | @ 11.75 | 282.00   |
| 30 Rock (Pt, Pb, Rh) | @ 9.00  | 270.00   |
| 58 Rock (Assay Au)   | @ 25.00 | 1,450.00 |

Statistical Analysis

18.00

9,090.80

9,090.80

Road Work and Trenching - Cat Charges

1,000.00

Drilling Costs

Drilling Contractor

28,538.91

Cat Charges

3,357.50

31,896.41

31,896.41

Custom Topographic Map Prep.

3,549.45

Report Preparation Cost

Drafting Supplies

114.50

Drafting 100 Hours @ 15.00

1,500.00

Typing

535.00

Map Reproduction

546.54

Copying and Binding 8 Reports

287.20

2,983.24

2,983.24





|                                                  |                 |                           |
|--------------------------------------------------|-----------------|---------------------------|
| Site Loss and Inspection Fee (MacMillan Bloedel) | 1,175.00        |                           |
| Miscellaneous                                    |                 |                           |
| (Gas, Phone, Courier, Maps, Supplies Etc.)       | <u>1,259.94</u> |                           |
| Disbursements Sub Total                          | 50,954.84       |                           |
| Administration (15%)                             | <u>7,643.22</u> |                           |
| Total Disbursements                              | 58,598.06       | <u>58,598.06</u>          |
| Total Cost of Project                            |                 | <u>99,493.06</u><br>===== |

Note:

|                                                                                                               |                           |
|---------------------------------------------------------------------------------------------------------------|---------------------------|
| - Statement of Exploration and Development for<br>period Sept. 24 to Dec. 11, 1986,<br>filed Dec. 11, 1986    | 50,350.00                 |
| - Statement of Exploration and Development for<br>period Dec. 12, 1986 to Mar. 9, 1987<br>filed Mar. 10, 1987 | <u>49,143.06</u>          |
| Total                                                                                                         | <u>99,493.06</u><br>===== |



**APPENDIX II**

**ROCK SAMPLE DESCRIPTIONS AND  
LITHOGEOCHEMICAL RESULTS**



ABBREVIATIONS

MINERALS

|          |               |
|----------|---------------|
| AB       | Albite        |
| AS       | Arsenopyrite  |
| CB, CARB | Carbonate     |
| CP       | Chalcopyrite  |
| CHL      | Chlorite      |
| CZ       | Chlinozoisite |
| DI       | Diopside      |
| EP       | Epidote       |
| FSP      | Feldspar      |
| GL       | Galena        |
| GT       | Garnet        |
| HM       | Hematite      |
| HB       | Hornblende    |
| LEUC     | Leucoxene     |
| MT       | Magnetite     |
| MC       | Malachite     |
| PLAG     | Plagioclase   |
| PY       | Pyrite        |
| PX       | Pyroxene      |
| PO       | Pyrrhotite    |
| QZ       | Quartz        |
| SER      | Sericite      |
| SL       | Sphalerite    |

LITHOLOGY

|          |                                 |
|----------|---------------------------------|
| ARG      | Argillite                       |
| BAS      | Basalt                          |
| CARB     | Carbonate                       |
| CHT      | Chert                           |
| XLT      | Crystal Tuff                    |
| DIAB     | Diabase                         |
| DIOR     | Diorite                         |
| FHP      | Feldspar Hornblende<br>Porphyry |
| FBX      | Flow Breccia                    |
| GABB     | Gabbro                          |
| HYAL     | Hyaloclastite                   |
| LMST     | Limestone                       |
| MAF      | Mafic (Basalt,<br>Andesite)     |
| QFP      | Quartz Feldspar<br>Porphyry     |
| SDST     | Sandstone                       |
| STST     | Siltstone                       |
| SKN      | Skarn                           |
| VN, VNLT | Vein, Veinlet                   |

COLOUR

|         |       |
|---------|-------|
| BLK     | Black |
| BLU     | Blue  |
| BRN, BN | Brown |
| GN      | Green |
| GY      | Gray  |
| OL      | Olive |
| RD      | Red   |
| WHT     | White |

TEXTURES AND ALTERATION

|            |                         |
|------------|-------------------------|
| ALT'D      | Altered                 |
| AMYG'L     | Amygdaloidal            |
| ANG        | Angular                 |
| ANH        | Anhedral                |
| BDD        | Bedded                  |
| BX'D, BX'N | Brecciated, Brecciation |
| CHTY       | Cherty                  |
| CHL'C      | Chloritic               |
| XLLINE     | Crystalline             |
| DISS       | Disseminated            |
| EP'C       | Epidotitic              |
| EUH        | Euhedral                |
| FG         | Fine Grained            |
| MG         | Medium Grained          |
| CG         | Coarse Grained          |
| GRAD       | Gradational             |
| HM'C       | Hematitic               |
| PY'C       | Pyritic                 |
| RDD        | Rounded                 |
| LAM'D      | Laminated               |
| MSV        | Massive                 |
| MED        | Medium (Bedded), 2-10mm |
| P          | Porphyry, Phyric        |
| SER'C      | Sericitic               |
| SIL, SIL'D | Siliceous, Silicified   |
| SUB-ANG    | Sub Angular             |
| SBH        | Subhedral               |
| TK         | Thick (Bedded), >10mm   |
| VES        | Vesicular               |

GENERAL

|            |                       |
|------------|-----------------------|
| ABDT       | Abundant              |
| AMYG       | Amygdule              |
| AV         | Average               |
| BDG        | Bedding               |
| BX         | Breccia               |
| BC         | Broken Ground         |
| CMT        | Cement                |
| CM         | Chill Margin          |
| XL         | Crystal               |
| CT         | Contact               |
| CA         | Core Axis             |
| Ø, DIA     | Diameter              |
| FRCR       | Fracture              |
| GO         | Gouge                 |
| GND        | Ground                |
| GM         | Groundmass            |
| LAM        | Laminated             |
| MOD        | Moderate              |
| NTWK       | Network               |
| PHENO      | Phenocryst            |
| QCV        | Quartz Carbonate Vein |
| QV         | Quartz Vein           |
| SHR        | Shear                 |
| STG        | Stringer              |
| STR, STRLY | Strong, Strongly      |
| SX         | Sulphides             |
| W, w̄, W/  | With                  |



ROCK SAMPLE DESCRIPTIONS AND  
LITHOGEOCHEMICAL RESULTS

| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                 | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 3421             | Location: 150 m up logging rd S2<br>from South Road<br>Rock Type: Siliceous Siltstone (Tuff?)<br>Occurrence Type, Size: Outcrop, Large<br><br>Light greenish-gray siltstone with<br>widespread very fine grained disseminated<br>sulphides (Py?) to 2%.                                            | 5                | 0.2              | <5               | 279              |                     |
| 3422             | Location: 100 m up logging rd S2<br>from South Road<br>Rock Type: Siliceous Siltstone<br>(Argillite?)<br>Occurrence Type, Size: Outcrop, Large<br><br>Dark greenish-gray to black siltstone<br>with widespread disseminated and<br>fracture filling pyrite and chalcopyrite,<br>each less than 1%. | 5                | 0.2              | 5                | 74               | 118 Zn              |
| 3423             | Location: 200 m from South Road<br>up logging road S2<br>Rock Type: Siliceous Siltstone (Tuff?)<br>Occurrence Type, Size: Outcrop, Large<br><br>Same as 3421                                                                                                                                       | 5                | 0.2              | < 5              | 139              |                     |
| 3424             | Location: On South Road 2 km. up<br>from S2 Road.<br>Rock Type: Silicified F.G. Clastic (?)<br>Occurrence Type, Size: Outcrop, Large<br><br>Blue-gray and white-gray clastic with<br>5% disseminated fine grained Py and Po<br>(in masses to 2mm).                                                 | 5                | 0.2              | 10               | 173              |                     |



| <u>Sample No.</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 3406              | Location : M4F1 road,<br>Mike No. 3 claim<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, grab<br><br>5 cm(+) quartzose lense in siliceous siltstone with 1-2% fracture related pyrite.                                                                                                                                                                                                                                                                                                              | 5                | 0.2              | <5               | 119              |                     |
| 3407              | Location : M4F1 road,<br>Mike No. 3 claim<br>Rock Type: Quartz Vein Breccia<br>Occurrence Type, Size: Outcrop, grab<br><br>Light gray quartz vein with 50% dark greenish-gray siliceous siltstone host breccia fragments. Quartz contains up to 3% fracture related pyrite.                                                                                                                                                                                                                                               | 5                | 0.2              | 5                | 93               |                     |
| 3408              | Location : M4F1 road,<br>Mike No. 3 claim<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, grab;<br>2 cm wide vein.<br><br>White to light gray quartz vein up to 2 cm wide. The vein appears to be weakly colloform. 5% pyrite occurs as 1-2 mm bands parallel to the vein selvages.                                                                                                                                                                                                                          | 5                | 0.2              | <5               | 151              |                     |
| 3409              | Location : NW end of M4F1,<br>Mike 3 claim<br>Rock Type: Outcrop<br>Occurrence Type, Size: Siliceous Lense in Silicified Siltstone;<br>5 cm wide<br><br>White to gray vuggy, fractured silicified lense hosted in greenish-gray cherty siltstone. Vugs in the silicified lense appear to be from weathering of a fine grained black earthy material with associated fine grained pyrite. This black material makes up approximately 10% of the siliceous zone and is probably an alteration of pyrite. Primary sulphides? | 50               | 8.2              | 5                | 2772             | 426 Zn<br>720 Ba    |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                       | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm       |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------------|
| 3425             | Location: On South Road 2 km up from S2 Road<br>Rock Type: Silicified F.G. Clastic (?)<br>Occurrence Type, Size: Outcrop, Large<br><br>Same as 3424                                                                                                                                      | 10               | 0.2              | <5               | 685              |                           |
| 3426             | Location: 3 km up South Road from Chemainus Main junction<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 5 cm wide<br><br>Gray quartz with 6% fine-medium grained fracture filling and disseminated Py.<br>Veins contain fine grained greenish gray chlorite Bx fragments. | 80               | 0.2              | 5                | 1977             | 62 Co                     |
| 3427             | Location: 3 km up South Road from Chemainus Main junction<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 6 cm wide<br><br>Milky white quartz with 10% Py and 5% Cp. Veins contain Bx fragments.                                                                            | 20               | 0.2              | <5               | 1346             | 58 Co                     |
| 3428             | Location: 3 km up South Road from Chemainus Main junction<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 6 cm wide<br><br>Same as 3427                                                                                                                                     | 100              | 8.4              | 130              | 7291             | 143 Co<br>34 Pb<br>288 Zn |
| 3429             | Location: 130 m from Ridgeway Cr. on S11A Rd.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Large<br><br>Gray-green siliceous siltstone with fine grained widespread disseminated Py along with fracture filling Py.                                              | 5                | 1.0              | 80               | 269              | 114 Zn                    |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 3430             | Location: 141 m from Ridgeway Cr.<br>on S11A Rd.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Large<br><br>Same as 3429                                                                                                   | 5                | 0.6              | 25               | 636              | 220 Zn              |
| 3431             | Location: 150 m from Ridgeway Cr.<br>on S11A Rd.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Shear Zone<br><br>Greenish grey siliceous siltstone<br>with 15% Py and traces of Cp.                                        | 40               | 1.4              | 145              | 1323             | 34 Mo<br>138 Zn     |
| 3432             | Location: 186 m from Ridgeway Cr.<br>on S11A Rd.<br>Rock Type: Siliceous Siltstone with<br>Quartz Vein<br>Occurrence Type, Size: Outcrop, Large<br><br>Black siliceous siltstone with 1%<br>fine grained disseminated Py, Cp and<br>traces of Po. | 40               | <0.2             | <5               | 259              | 510 Ba              |
| 3433             | Location: 250 m from Ridgeway Cr.<br>on S11A Rd.<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Outcrop, Large<br><br>Grey-green conglomerate with fine<br>grained Py and traces of Cp.                                                     | 5                | <0.2             | <5               | 454              |                     |
| 3434             | Location: 566 m from Ridgeway Cr.<br>on S11A Rd. 1+50N, 2+50W<br>Rock Type: Siliceous Clastic<br>Occurrence Type, Size: Outcrop, Large<br><br>Blue grey sheared siliceous clastic<br>with 10% Py.                                                 | 5                | <0.2             | <5               | 346              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                          | <u>Au</u><br>ppb    | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|------------------|------------------|---------------------|
| 3435             | Location: 605 m from Ridgeway Cr.<br>on S11A Rd. 2+00W, 1+50N<br>Rock Type: Tuff<br>Occurrence Type, Size: Outcrop, Large<br><br>Black Tuff with 2% Py.                                     | 5                   | <0.2             | <5               | 294              |                     |
| 3436             | Location: 825m from Ridgeway Cr.<br>on S11A Rd. 0+73N, 0+40W<br>Rock Type: Argillite<br>Occurrence Type, Size: Outcrop, Large<br><br>Black argillite with traces of Py and Cp.              | 5                   | <0.2             | 5                | 104              | 34 Pb<br>114 Zn     |
| 3437             | Location: 877m from Ridgeway Cr.<br>on S11A Rd. 0+00N, 0+00W<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 20 cm wide<br><br>Bluish white quartz with 10% each<br>Py and Cp. | 6900<br>0.224 oz/t  | 0.2              | 100              | 1093             |                     |
| 3438             | Location: 877m from Ridgeway Cr.<br>on S11A Road 0+00N, 0+00W<br>Rock Type: Quartz Vein<br><br>Same as 3437                                                                                 | 11000<br>0.360 oz/t | 0.6              | 95               | 1207             |                     |
| 3439             | Location: 1325m down from MB & WFI<br>Boundary<br>Rock Type: Tuff<br>Occurrence Type, Size: Outcrop, Large<br><br>Black Tuff with fracture filled Py.                                       | 40                  | <0.2             | <5               | 142              | 340 Ba              |
| 3440             | Location: 1548m from MB & WFI Boundary<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Large<br><br>Greyish black siliceous siltstone with<br>2% Py and traces of Po.  | 10                  | <0.2             | 5                | 375              | 420 Ba              |





| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 3441             | Location: 1654m from MB & WFI Boundary<br>Rock Type: Tuff<br>Occurrence Type, Size: Outcrop, narrow Shear Zone<br><br>Black Tuff with 25% Py in shear zone.                                       | 20               | 1.8              | <5               | 1011             | 50 Co               |
| 3442             | Location: 2600 m from MB & WFI Boundary<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Outcrop, Large<br><br>Black, greyish white conglomerate with disseminated and fracture filling Py.   | 5                | <0.2             | <5               | 95               |                     |
| 3443             | Location: 3033m from MB & WFI Boundary<br>Rock Type: Argillite<br>Occurrence Type, Size: Outcrop, Large<br><br>Black Argillite with 1% Py.                                                        | 5                | <0.2             | <5               | 79               | 220 Ba              |
| 3444             | Location: 130m down road from intersection 1811<br>Rock Type: Feldspar Hornblende Porphyry<br>Occurrence Type, Size: Outcrop, Large<br><br>Bluish green feldspar hornblende porphyry with 10% Py. | 5                | <0.2             | <5               | 833              |                     |
| 3445             | Location: 360m from intersection 1811<br>Rock Type: Quartz (Vein?)<br>Occurrence Type, Size: Float<br><br>Rusty white quartz with 15% Py.                                                         | 60               | 0.2              | 300              | 3546             |                     |
| 3446             | Location: 360m from intersection 1811<br>Rock Type: Quartz (Vein?)<br>Occurrence Type, Size: Float<br><br>White quartz with 20% Py.                                                               | 200              | 3.2              | 1705             | 4710             | 84 Co               |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                  | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 3447             | Location: 390m from intersection 1811<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Quartz Vein.<br>10 cm wide<br><br>Milky white quartz vein with 25% Py and 1% Cp.                                                          | 90               | 0.6              | 275              | 5288             |                     |
| 3448             | Location: 1700m down from MB & WFI<br>Boundary<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Float<br><br>Greyish green siliceous siltstone with fine grained disseminated Py (20%) and Cp (15%).                     | 10               | 2.8              | <5               | 7726             | 158 Zn              |
| 3449             | Location: 55m from M1 Silt.<br>Mike No.1 Claim<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop,<br>15 cm wide<br><br>Milky white quartz vein with 10% Cp.<br>Malachite staining.                                        | 60               | <0.2             | 115              | 586              |                     |
| 3450             | Location: 317m from where M1 was taken<br>Mike No.1 Claim<br>Rock Type: Porphyritic Gabbro<br>Occurrence Type, Size: Outcrop, Large<br><br>Dark green porphyritic gabbro, very coarse grained with <1% Cp and 10% magnetite.        | 5                | <0.2             | 10               | 403              | 319 V               |
| 3929             | Location: Ridgeway Cr.<br>Rock Type: Quartz<br>Occurrence Type, Size: Outcrop, Shear<br>Zone 20 cm x 50 m<br><br>Rusty brown on weathered surface, white on fresh surface. Abundant rusty 'vugs'<br>- probable weathered sulphides. | 5                | 0.2              | 5                | 6                |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                             | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 3951             | Location: 570m on left fork from M1 Silt. Mike No.1 Claim.<br>Rock Type: Cherty Tuff<br>Occurrence Type, Size: Outcrop, Large<br><br>Dark grey cherty tuff with traces of Py disseminated and along fractures.                                 | 5                | <0.2             | 10               | 447              | 420 Zn              |
| 3952             | Location: 17m up from 3459 (587m on left fork from M1 Silt) Mike No. 1 Claim.<br>Rock Type: Gabbro<br>Occurrence Type, Size: Outcrop, Large<br><br>Dark greenish-grey gabbro with traces of disseminated Cp. Coarse grained intrusive, CI ~25. | 5                | <0.2             | <5               | 325              |                     |
| 3953             | Location: At road junction where 3447 was taken<br>Rock Type: Quartz Breccia<br>Occurrence Type, Size: Outcrop, Small<br><br>Weathered: rusty. Fresh: brown with white. Massive Py lense in quartz breccia with trace Cp disseminated in Py.   | 70               | 0.2              | 330              | 926              |                     |
| 3954             | Location: 1680m from MB & WFI Boundary<br>Rock Type: Siltstone<br>Occurrence Type, Size: Float<br><br>Siltstone with 2% Py disseminated and in blebs up to 2 mm. Cp 1%.                                                                        | 20               | 1.6              | <5               | 8492             | 63 Co               |
| 3955             | Location: 1680m from MB & WFI Boundary Mike No.1 Claim<br>Rock Type: Quartz Breccia<br>Occurrence Type, Size: Float<br><br>White quartz breccia with Py in irregular bands and fracture filling. Trace of Cp in fractures.                     | 5                | 0.8              | <5               | 4210             |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                 | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 3956             | Location: 10 m down road from sample 3439. (1335 down from MB & WFI Boundary) Mike No.1 Claim.<br>Rock Type: Quartz Breccia<br>Occurrence Type, Size: Outcrop<br><br>White to grey quartz breccia with 1% finely disseminated Py. Angular breccia fragments to 2 mm. Vugs to 1 mm may be from weathered sulphides. | 20               | 0.2              | 30               | 107              |                     |
| 3957             | Location: 55m from start of road south of trench on S11A<br>Rock Type: Cherty Argillite<br>Occurrence Type, Size: Outcrop, Large<br><br>Black cherty argillite with 1% disseminated Py and Py/Cp in fractures.                                                                                                     | 5                | <0.2             | 325              | 381              |                     |
| 3958             | Location: 140 m up road south of trench on S11A.<br>Rock Type: Silt/Sandstone<br>Occurrence Type, Size: Outcrop<br><br>Black silt/sandstone with ~1% Py found in fractures throughout and disseminated in sandstone. Sandstone and siltstone interbedded with rare acidic fragments.                               | 5                | <0.2             | <5               | 539              | 230 Ba              |
| 3959             | Location: 340 m up road south of trench on S11A.<br>Rock Type: Cherty Siltstone<br>Occurrence Type, Size: Outcrop<br><br>Grey cherty siltstone with trace Py associated with quartz veinlets.                                                                                                                      | 5                | <0.2             | 5                | 314              |                     |
| 3960             | Location: 422 m up road south of trench on S11A.<br>Rock Type: Quartz Vein in Siltstone<br>Occurrence Type, Size: Outcrop<br><br>White to grey quartz vein in siltstone with 1½ cm wide milky white quartz vein with parallel Py lenses to 2 mm x 2 cm.                                                            | 5                | 0.2              | 10               | 696              | 40 W                |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                           | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 3961             | Location: 430 m up road south of trench on S11A.<br>Rock Type: Quartz Stringer in Chert<br>Occurrence Type, Size: Outcrop<br><br>Grey quartz stringer in hematitic chert with 3% disseminated Po and Py. chert. Py and Po disseminated in quartz.                                            | 30               | 0.2              | 5                | 647              |                     |
| 3962             | Location: 433 m up road south of trench on S11A<br>Rock Type: Chert<br>Occurrence Type, Size: Float<br><br>Milky white massive cherty material with some hematite coloration. Py associated with irregular chloritic fracture fillings.                                                      | 60               | <0.2             | <5               | 687              |                     |
| 3963             | Location: 436 m up road south of trench on S11A<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Outcrop, Large<br><br>Grey conglomerate with 2% disseminated Po in matrix. Rounded clasts (3mm x 1mm x ?) in a tuffaceous matrix.                                                       | 5                | 0.4              | <5               | 249              |                     |
| 3964             | Location: 470 m up road south of trench on S11A.<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Outcrop, Small pod<br><br>White to grey conglomerate with 25% Po, 1% Cp and 4% Py. Po appears to be a replacement of mafic material in matrix. CP associated with Po. Py in fractures. | 5                | 0.2              | <5               | 1469             |                     |
| 3965             | Location: 15 m up left fork from sample 3964<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Large<br><br>Greyish black siliceous siltstone with 20% Py and 10% Cp.                                                                                                     | 5                | 0.2              | <5               | 843              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|--------------------------|
| 3966             | Location: 540 m up right fork from sample 3964<br>Rock Type: Siliceous Siltstone (Tuff?)<br>Occurrence Type, Size: Outcrop, Large<br><br>Black siliceous siltstone (tuff?) with 30% disseminated Py.                                                                                                                                                                                                                                                                                                                         | 20               | 0.4              | 10               | 1447             |                          |
| 3967             | Location: 1030 m up right fork from sample 3964<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Large<br><br>Greyish green siliceous siltstone with 15% Py.                                                                                                                                                                                                                                                                                                                                             | 5                | 0.2              | <5               | 304              |                          |
| 14001            | Location: Near end of S11A. 2+10S,2+50E<br>Rock Type: Silicified, Altered Sediment?<br>Occurrence Type, Size: Float, Pod 30cm x 15 cm x ?<br><br>Limonitic brown to grey silicified, altered sediment with a trace Py. Alteration pod(?) or clast(?) in coarse grained boulder conglomerate (agglomerate?) Zone is vuggy, limonitic and contains white crystals to 2 mm in a quartzose grey ground-mass. Could be an altered porphyry. Host boulder contains rounded boulders of trachytic porphyry up to 30 cm in diameter. | 5                | <0.2             | <5               | 133              | 1344 Zn                  |
| 14002            | Location: S11A Road, 2+30S,0+70E<br>Rock Type: Shear Zone<br>Occurrence Type, Size: Outcrop, 0.5m wide<br><br>Limonitic earthy shear along contact between gabbroic intrusive and boulder conglomerate (agglomerate?).                                                                                                                                                                                                                                                                                                       | 80               | 1.6              | 1030             | 699              | 41 Mo<br>10 Sb<br>103 Co |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                      | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 14003            | Location: S11A Road, 1+75S,1+50E<br>Rock Type: Shear in Tuff (Lapilli)<br>Occurrence Type, Size: Outcrop, 2 cm<br>pyritic shear 81/54 SE<br><br>Medium greenish gray crystal tuff(?)<br>with angular to sub rounded siliceous,<br>bedded fragments to 5 cm. Matrix<br>contains abundant sub hedral feldspar<br>crystal fragments to 1 mm. Py ~ 20%<br>in 2 cm shear and 2 - 3% in host. | 5                | <0.2             | 15               | 379              |                     |
| 14029            | Location: M8 Road, 95 metres south of<br>Carmichael Creek.<br>Rock Type: Tuff<br>Occurrence Type, Size: Outcrop<br><br>Medium grained siliceous sandy tuff<br>with dark green rounded to angular<br>clasts to 0.5 mm in a very fine grained<br>lighter green siliceous groundmass<br><1% fine grained Py. Bedded 98/85SW.                                                               | 5                | 0.2              | 5                | 74               |                     |
| 14030            | Location: M8 Road. 445 m south of<br>Carmichael Creek.<br>Rock Type: Fault Gouge<br>Occurrence Type, Size: Outcrop, 1 m +<br><br>Limonitic brown falt gouge. Brecciated<br>fine grained cherty sediment (?),<br>intensely sheared to brown or dark grey<br>gouge in a zone 1 m+ wide. Appears to<br>be part of major fault evident as<br>lineation on air photo.                        | 5                | 0.2              | 35               | 59               |                     |
| 14031            | Location: M8 Road. 270 m NW of<br>switchback with Branch Line.<br>Rock Type: Quartz Stringer<br>Occurrence Type, Size: Outcrop, 1-2 cm.<br><br>White to bluish grey quartz stringer with<br>10 - 20% Py. Vuggy limonitic, quartz<br>stringer 103/85 SW. Hosted in unaltered<br>grey, fine to medium grained sandstone.                                                                  | 5                | 0.2              | <5               | 325              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                        | <u>Au</u><br>ppb  | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|------------------|------------------|---------------------|
| 14032            | Location: M8 Road. 240 m north of Carmichael Creek<br>Rock Type: Silicified Zone in CG Sediment<br>Occurrence Type, Size: Outcrop, few cm wide lense.<br><br>Medium greenish grey silicified zone in CG sediment with Py to 5%. Silicified lense with abundant small vugs commonly filled with limonite. Hosted in coarse grained sandstone or tuff.                      | 5                 | 0.2              | <5               | 30               |                     |
| 14033            | Location: M8 Road. 324 m north of Carmichael Creek<br>Rock Type: Quartz Stringer<br>Occurrence Type, Size: Outcrop, 2 cm.<br><br>Light brownish grey quartz stringer with up to 5% Py and trace Cp. Hosted in siliceous siltstone and sandstone.                                                                                                                          | 170<br>0.007 oz/t | 1.6              | <5               | 109              |                     |
| 14034            | Location: M8 Road. 235 m south of M8C Branch.<br>Rock Type: Cherty Sediment(?)<br>Occurrence Type, Size: Float, 10 cm x 5 cm x 5 cm cobble<br><br>Light to dark bluish grey cherty sediment(?) with 5 - 8% fracture filling Py and trace Cp.                                                                                                                              | 5                 | 1.2              | <5               | 523              |                     |
| 14035            | Location: Near M8 Road. 2+00N,3+20E.<br>Rock Type: Cherty Sediment<br>Occurrence Type, Size: Float, 10 cm <sup>3</sup> boulder (sub angular)<br><br>Light greenish grey cherty sediment with 5% Py and trace Cp. Cherty material appears to be interlayered with fine to medium grained clastic (sandstone?, tuff?) Chloritic alteration has destroyed original textures. | 5                 | 0.6              | <5               | 1265             |                     |





| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 14036            | Location: M8 Road. 1+80N,2+70E<br>Rock Type: Cherty Coarse Grained Sediment<br>Occurrence Type, Size: Outcrop, 2 cm.<br><br>Dark grey to light grey, cherty, coarse grained sediment with 5% disseminated Py. Silicified sediment with rounded fine grained lithic fragments to 2 mm (av <1 mm) and white feldspar crystal fragments. Could be a tuff. 5% Py (+pyrrhotite?) in a 2 cm zone approximately 10 m from gabbro contact. | 5                | 0.4              | <5               | 170              |                     |
| 14037            | Location: M8 Road. 2+00N,1+65E<br>Rock Type: Siliceous Zone in Crystal Tuff<br>Occurrence Type, Size: Float, 30 cm x 40 cm x ? sub rounded boulder<br><br>Dark brown to light grey 3 cm siliceous zone with 15% disseminated sulphides (Py, Po and trace Cp). Zone hosted in a crystal tuff with 30% stubby, sub-hedral feldspar crystal fragments to 1 mm in a dark brown groundmass with 3 - 4% disseminated Py.                 | 10               | 0.4              | <5               | 670              |                     |
| 14038            | Location: Mike Grid B.L., 0+50W<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, few metre wide exposure<br><br>Dark brown siliceous siltstone with 5% fine grained fracture related Py and Po. Trace Cp.                                                                                                                                                                                                      | 5                | 0.2              | <5               | 181              |                     |
| 14039            | Location: 0+60S,0+85W<br>Rock Type: Quartz Stringer<br>Occurrence Type, Size: Float, ½ cm wide Stringer<br><br>White ½ cm vuggy quartz stringer with 2 - 3% Po and 1% CP. Hosted in dark brown, well bedded, siliceous siltstone.                                                                                                                                                                                                  | 5                | 0.2              | <5               | 105              | 410 Ba              |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>Au</u><br>ppb  | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|------------------|------------------|---------------------|
| 14040            | Location: 3+00E,BL<br>Rock Type: Cherty Fine Grained Sediment<br>Occurrence Type, Size: Outcrop, 1-2 m<br>Exposure<br><br>Light bluish grey cherty fine grained sediment with 1 - 2% Po along fractures. Strongly fractured, sheared, limonitic cherty lense in coarse grained conglomerate.                                                                                                                                                   | 5                 | 0.2              | 5                | 27               | 164 Zn              |
| 14041            | Location: 0+50N,2+60E<br>Rock Type: Pyritic Shear<br>Occurrence Type, Size: Outcrop, 1-2 cm.<br><br>Limonitic pyritic shear with 5% Py and trace Cp. Hosted in a light to dark green coarse grained sandstone or sandy tuff. Abundant light greenish grey to dark green rounded feldspar crystal fragments to 1 mm in a chloritic groundmass.                                                                                                  | 5                 | 0.2              | <5               | 332              |                     |
| 14042            | Location: 2+00N,2+45E<br>Rock Type: Siliceous Lenses in Coarse Grained Sandy Clastic<br>Occurrence Type, Size: Float<br><br>Light grey to dark greenish grey siliceous lenses in coarse grained sandy clastic with 2-3% Po and Cp. Trace S1(?). Composite sample of 3 pieces of float. Siliceous sulphide bearing zones to 3 cm wide in a dark green coarse grained sandstone with rounded quartzose grains to 1 mm in a chloritic groundmass. | 230<br>0.010 oz/t | 0.2              | <5               | 1020             |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>Au</u><br>ppb    | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|------------------|------------------|---------------------|
| 14043            | Location: M8 Road. 2+00N,2+45E<br>Rock Type: Siliceous Siltstone with<br>Coarse Grained Mafic Vein.<br>Occurrence Type, Size: Outcrop, 1 m <sup>2</sup><br>Exposure<br><br>Light grey to dark grey siliceous<br>siltstone with a coarse grained 'mafic<br>vein'. Light grey, very fine grained<br>siliceous material (sediment?) in<br>contact with dark green to black<br>coarse grained crystalline material<br>with 65% chloritic mafic crystals<br>(actinolite?), 30% white feldspar<br>and 5% fine grained disseminated<br>chalcopyrite. The mafic portion<br>may be 'veins' of hydrothermally<br>formed minerals. | 70                  | 0.2              | <5               | 520              |                     |
| 14044            | Location: M8 Road. 2+00N,2+45E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Abundant float<br>near source.<br><br>Light grey to dark green siliceous<br>siltstone with 5% Po, 2-3% CP in mafic<br>'stringers'. Similar to 14043.                                                                                                                                                                                                                                                                                                                                                                         | 10                  | 0.2              | <5               | 657              |                     |
| 14045            | Location: 2+10N,1+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 3-5 cm.<br><br>Bluish grey vuggy quartz vein with<br>2-3% fine grained arsenopyrite and<br>pyrite. Trace chalcopyrite.                                                                                                                                                                                                                                                                                                                                                                                                               | 25500<br>0.650 oz/t | 1.0              | 1700             | 605              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>Au</u><br>ppb   | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|---------------------|
| 14046            | Location: M8 Road. 1+95N,1+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 10 cm.<br><br>Mottled dark greenish grey to bluish grey quartz vein. 2-3 cm vuggy, pyritic (5%) quartz stringer in a 10 cm (+) silicified zone in siliceous sediments. Silicified zone may be related to mafic zones observed in 14043 and 14044. Silicified zone in 14046 contains dark bluish green mafic masses which could be actinolite. 1-2% Po in this zone. | 1060<br>0.033 oz/t | 0.2              | 880              | 679              | 10 W                |
| 14051            | Location: 1+40S,1+30E<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Outcrop<br><br>Dark grey conglomerate with 5% Po.                                                                                                                                                                                                                                                                                                                                    | 5                  | <0.2             | 35               | 132              |                     |
| 14052            | Location: 1+45N,3+00W on Road S11A<br>Rock Type: Shear Zone<br>Occurrence Type, Size: Outcrop, 1-2 cm.<br><br>Limonitic shear zone with 5% Py.                                                                                                                                                                                                                                                                                                                  | 80                 | 1.6              | 10               | 1969             |                     |
| 14053            | Location: 270 m at 235° from E end<br>S11A<br>Rock Type: Quartz<br>Occurrence Type, Size: Abundant quartz vein float.<br><br>White quartz with iron-oxide stain on surface and fracture planes. Angularity of pieces sampled indicates that there must be quartz veining on the mountain's summit. They do not appear to have been deposited by glacial action.                                                                                                 | 5                  | <0.2             | 5                | 58               |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                 | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 14056            | Location: Western edge of Mike No. 1 Claim. Three roads south of S11A.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Float<br><br>Dark grey siliceous siltstone with 1% Py. Specimen's presence in stream bed suggests possible outcrop upstream.                                                                                                                    | 5                | 0.2              | <5               | 72               |                     |
| 14057            | Location: Mike No.3 Claim on road "M4F1", 90 m north of "M4" Branch.<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Outcrop<br><br>Dark grey conglomerate with 2% Po. Cherty and siliceous siltstone fragments $\leq 10$ mm in an often lighter highly quartz rich matrix. Matrix is rich in Po, up to 10% in some cases. It appears as if some silicification has occurred. | 5                | 0.2              | <5               | 92               |                     |
| 14058            | Location: "M4F1", 1420 m north of "M4" Branch.<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop. Thin ( $\leq 4$ cm) vein running for ~2m.<br><br>White quartz vein with 1% Py, trace Cp. Associated with a feldspar porphyry dike.                                                                                                                                     | 10               | 0.2              | <5               | 7                |                     |
| 14059            | Location: On road "M4F1", 1420 m north of "M4" Branch.<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop. Vein, 5 cm continuous over ~2m.<br><br>Bluish white quartz vein with 1% Py. Near same feldspar prophyry dike as #14058.                                                                                                                                        | 5                | 0.2              | <5               | 79               |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                               | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 14060            | Location: By sample 3966<br>Road south of S11A, 450 m<br>west of Ridgeway Cr.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop. Probably<br>concordant with bedding. ~ 20 cm<br>thick and continuous over ~ 1.5 m.<br><br>Dark brownish black siliceous siltstone<br>with 10% Py. Py is in stringers which<br>criss-cross through the rock. Stringers<br>are up to 5mm thick. | 5                | 0.2              | 5                | 633              |                     |
| 14061            | Location: Road south of S11A, 315 m<br>west of Ridgeway Cr.<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop. Vein<br>≤ 10 cm wide and continuous<br>for 6 m.<br><br>White quartz vein with ≤ 25% Py. This<br>vein appears to parallel joints.                                                                                                                                        | 5                | 0.2              | <5               | 189              |                     |
| 14062            | Location: Road south of S11A, 315 m<br>west of Ridgeway Cr.<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop. Occurs<br>in a large shear which strikes<br>55/82SE.<br><br>White quartz vein with 1% Py. Quartz is<br>cementing much of the sheared rock<br>fragments. Zone is ~ 0.5m wide.                                                                                            | 5                | 0.2              | <5               | 306              |                     |
| 14063            | Location: Road south of S11A, 175 m<br>west of Ridgeway Cr.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, ~ 1m x 1m<br><br>Grey siliceous siltstone. Py on joint<br>surface.                                                                                                                                                                                              | 5                | 0.2              | 5                | 192              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>Au</u><br>ppb   | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|---------------------|
| 14068            | Location: Mike Trench on S11A<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop.<br><br>Green to maroon on fresh surface,<br>green on weathered surface. Wall rock.<br>≤1% Po finely disseminated. Siliceous<br>lenses parallel to bedding, probably<br>quartz mobilizing along fracture planes.                                                                                                       | 5                  | 0.2              | < 5              | 107              |                     |
| 14069            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop. 10cm,<br>Vein exposed for 14m.<br><br>Vein material with 10% Py, 51% CP and<br>5% soft fine grained, grey mineral (As?).<br>Sx's are mainly concentrated at selvage.<br>Also some coarse, disseminated Py within<br>the quartz vein itself, the weathering<br>of which has left the quartz with a<br>somewhat vuggy texture. | 4700<br>0.164 oz/t | 0.6              | 210              | 795              |                     |
| 14070            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop.<br><br>Black on fresh surface, green on<br>weathered surface. Wall rock.                                                                                                                                                                                                                                             | 230<br>0.007 oz/t  | 0.2              | < 5              | 178              | 210 Ba              |
| 14071            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop.<br><br>Dark maroon to black on fresh wet<br>surface, green on weathered surface.<br>Siliceous siltstone with trace Po.                                                                                                                                                                                               | 5                  | 0.2              | < 5              | 51               | 210 Ba              |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>Au</u><br>ppb    | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|------------------|------------------|---------------------|
| 14072            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop. 10cm,<br>vein exposed for 14m.<br><br>White quartz vein with 9% Py and<br>1% Cp. Sulphides are distributed<br>more or less evenly throughout the<br>sample. Again weathering has<br>produced a vuggy texture which<br>accounts for ~1% of the sample's<br>volume. Py has a strange earthy<br>dark grey tarnish on weathered<br>surfaces. | 27000<br>0.784 oz/t | 2.0              | 385              | 910              |                     |
| 14073            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop.<br><br>Dark maroon to black on fresh wet<br>surface. Wall rock of siliceous<br>siltstone.                                                                                                                                                                                                                                        | 30                  | 0.2              | 5                | 98               |                     |
| 14074            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop.<br><br>Maroon to green on fresh surface,<br>light yellow on weathered surface.<br>Siliceous siltstone with <1% Po.<br>Wall rock. Heavily silicified.<br>Also eroded along fracture planes<br>to produce vuggy zones. Po in<br>fractures as well as minor<br>disseminated blebs.                                                  | 50                  | 0.2              | 5                | 104              |                     |





| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                       | <u>Au</u><br>ppb    | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|------------------|------------------|---------------------|
| 14075            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br><br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop. 8cm,<br>vein exposed for 14m.<br><br>Light greyish white quartz vein<br>with 5% Py and 1% limonite. Py<br>occurs mostly on vuggy fracture<br>planes but also as blebs within<br>the quartz. Limonite on fracture<br>planes.                                                               | 13400<br>0.440 oz/t | 3.6              | 165              | 1025             |                     |
| 14076            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br><br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop.<br><br>Dark grey on fresh wet surface,<br>green on weathered surface. Siliceous<br>siltstone with $\leq 1\%$ Po and 25% (As?)<br>Wall rock. Intense silicification<br>carrying As and Po. Sx are disseminated<br>evenly throughout the sample.                                    | 5                   | 0.2              | <5               | 69               |                     |
| 14077            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br><br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop<br><br>Dark greenish black on fresh wet<br>surface, green on weathered surface.<br>Siliceous siltstone. Wall rock.                                                                                                                                                                 | 290<br>0.013 oz/t   | 0.2              | 15               | 248              |                     |
| 14078            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br><br>Rock Type: Quartz Vein with Wall Rock.<br>Occurrence Type, Size: Outcrop, 7cm,<br>vein exposed for 14m.<br><br>Red to light blue grey quartz vein<br>with 5% Py, 10% hematite and 5% limonite.<br>Py is disseminated in the quartz but<br>more extensively weathered out on<br>one side. That side is now more<br>vuggy. Vugs are up to 1cm in dia. | 52000<br>1.75 oz/t  | 7.2              | 115              | 1385             |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                        | <u>Au</u><br>ppb    | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|------------------|------------------|---------------------|
| 14079            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop.<br><br>Green siliceous siltstone wall rock.                                                                                                                                            | 120<br>0.007 oz/t   | 0.2              | 10               | 117              |                     |
| 14080            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop<br><br>Siliceous siltstone which is dark maroon on fresh wet surface, green on weathered surface. Wall rock.                                                                            | 80                  | 0.2              | 5                | 137              |                     |
| 14081            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 9cm,<br>vein exposed for 14m.<br><br>Light grey quartz with 2% Py and $\leq 1\%$ Cp. Sulphides occur as disseminated blebs to 2 mm, and are commonly weathered out leaving limonitic cavities. | 23000<br>0.636 oz/t | 2.4              | 220              | 772              |                     |
| 14082            | Location: Mike Trench on S11A<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop<br><br>White to light green, intensely silicified wall rock. Vuggy texture (vugs $\leq 1$ mm.)                                                                                           | 40                  | 0.2              | <5               | 350              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                  | <u>Au</u><br>ppb    | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|------------------|------------------|---------------------|
| 14083            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop<br><br>White-dark green siliceous siltstone with 1% Py. Silicification is obvious along fracture planes, silicified envelopes $\approx$ 3mm wide. Po is generally confined within the fracture itself however some small blebs (~1mm) do occur. Wall rock sample. | 5                   | 0.2              | <5               | 107              |                     |
| 14084            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 15cm,<br>vein exposed for 14 m.<br><br>Light greyish white quartz vein with 5% Py and trace Cp. Sulphides in blebs up to 5mm and along thin fracture planes within the quartz. One speck of Cp noted.                                                                    | 12200<br>0.330 oz/t | 1.4              | 60               | 547              |                     |
| 14085            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop<br><br>Dark green siliceous siltstone wall rock. ~1% Po finely disseminated and on fracture planes. $\leq$ 1% Py on fracture planes.                                                                                                                              | 180                 | 0.2              | 10               | 259              | 42 Pb               |
| 14086            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop<br><br>Dark greyish black siliceous siltstone on fresh wet surface, brown yellow on weathered surface. Wall rock.                                                                                                                                                 | 5                   | 0.2              | <5               | 133              | 250 Ba<br>100 Zn    |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                    | <u>Au</u><br>ppb   | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|---------------------|
| 14087            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 3cm,<br>vein exposed for 14 m.<br><br>Light greenish-grey quartz vein<br>with 2% Py. Quartz is not vuggy.<br>Py occurs mostly near the vein<br>selvage.                                                                    | 9200<br>0.252 oz/t | 0.8              | 1065             | 1205             |                     |
| 14088            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop<br><br>Siliceous siltstone - dark grey<br>on wet fresh surface, yellow on<br>weathered surface 1% Py and<br>trace Po. Wall rock. Py on<br>fracture planes. Trace<br>disseminated Po (rock is slightly<br>magnetic.) | 5                  | 0.2              | < 5              | 199              |                     |
| 14089            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 12 cm,<br>vein exposed for 14 m.<br><br>White quartz vein with 5% limonite.<br>The sample is composed of breccia<br>fragments of siltstone ( $\leq 1$ cm),<br>cemented together with quartz.                               | 5400<br>0.172 oz/t | 0.2              | 125              | 243              |                     |
| 14090            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop<br><br>Siliceous siltstone - light green<br>to purple on fresh wet surface,<br>green on weathered surface. Wall<br>rock. Traces of Po and Py, both<br>disseminated and on fracture planes.                          | 50                 | 0.2              | 5                | 136              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                    | <u>Au</u><br>ppb  | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|------------------|------------------|---------------------|
| 14091            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 5cm<br><br>Light grey quartz vein with 5% Py.<br>Fragments of siltstone cemented<br>with quartz. Sulphides are in<br>stringer-like bodies.                                                                                 | 160<br>0.004 oz/t | 0.2              | 15               | 2170             |                     |
| 14092            | Location: Mike Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 5cm<br><br>Quartz vein with 5% Py, trace Cp<br>and 2% limonite and hematite. This<br>sample is from an offshoot of the<br>main vein. Abundant limonitic<br>cavities. Sulphides occur as blebs<br>and stringer-like bodies. | 30                | 0.2              | <5               | 462              |                     |
| 14093            | Location: Main Trench on S11A,<br>0+00N,0+00E<br>Rock Type: Gouge<br>Occurrence Type, Size: Outcrop,<br>5 cm x 3 m<br><br>Limonitic to grey gouge.                                                                                                                                                                                    | 80                | 0.2              | 25               | 533              |                     |
| 14503            | Location: 820 m up logging road M10,<br>from Meade Creek Road<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop.<br><br>Dark green siliceous siltstone with<br>5% fracture filling Py.                                                                                                                              | 5                 | 0.2              | <5               | 647              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                 | <u>Au</u><br>ppb  | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|------------------|------------------|---------------------|
| 14504            | Location: 820m up logging road M10,<br>from Meade Creek Road<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop<br><br>Same as 14503                                                              | 60                | 0.2              | <5               | 635              |                     |
| 14505            | Location: 468m up logging road M10<br>from Meade Creek Road<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Float<br><br>Greyish green siliceous siltstone<br>with 10% Py, 5% Cp and 5% chalcocite(?). | 5                 | 0.2              | <5               | 614              | 108 Ni              |
| 14506            | Location: 488 m up logging road M8<br>from Meade Cr. Rd.<br>Rock Type: Quartz<br>Occurrence Type, Size: Float<br><br>Greenish white quartz with 30% fine<br>grained massive Py.                                    | 5                 | 0.2              | <5               | 1518             | 103 Ni<br>188 Co    |
| 14507            | Location: 500 m up M8 Road.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Float<br><br>Greyish green siliceous siltstone<br>with 10% Py.                                                             | 5                 | 0.2              | <5               | 1809             | 130 Ni<br>221 Co    |
| 14508            | Location: On road M8, 860 m S.E.<br>of Carmichael Cr.<br>Rock Type: Quartz Veinlet<br>Occurrence Type, Size: Outcrop, 5 cm<br>wide vein.<br><br>Milky white quartz veinlet with 5%<br>Py and Cp.                   | 300<br>0.010 oz/t | 0.6              | <5               | 946              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                       | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 14509            | Location: On road M8, 510 m S.E.<br>of Carmichael Cr.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Large<br><br>Greyish green siliceous siltstone<br>with 5% Po and trace Cp.    | 40               | 0.2              | <5               | 389              |                     |
| 14510            | Location: On Road M8, 206m S.E.<br>of Carmichael Cr.<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Float<br><br>Bluish grey conglomerate with 10% Py<br>and 2% Cp.                                | 5                | 0.2              | <5               | 323              |                     |
| 14511            | Location: 600m up logging road M8<br>from Meade Cr. Rd.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Float<br><br>Siliceous siltstone with 15% Py and<br>5% Cp.                           | 20               | 1.4              | <5               | 4360             | 412 Co<br>220 Ni    |
| 14512            | Location: 130 m up Ridgeway Cr.<br>south of South Road<br>Rock Type: Quartz<br>Occurrence Type, Size: Float<br><br>Clear white quartz with 5% Cp,<br>2% Py and 20% ? (could be tarnished<br>pyrrhotite). | 5                | 0.6              | <5               | 1376             | 1005 W<br>53 Co     |
| 14513            | Location: 360 m up Ridgeway Cr.<br>from South Road<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Float<br><br>Bluish grey conglomerate with<br>2% Py and 2% Cp.                                   | 5                | 0.2              | 5                | 602              | 62 Co               |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                         | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 14514            | Location: 430 m up Ridgeway Cr.<br>Rock Type: Cherty Tuff<br>Occurrence Type, Size: Outcrop. Large<br><br>Greyish green cherty tuff with<br>2% Py, 2% Cp and trace Po.                     | 5                | 0.2              | <5               | 295              |                     |
| 14515            | Location: 535 m up Ridgeway Cr.<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Float<br><br>Greyish green conglomerate with<br>5% Cp, 10% Py, 10% Po.                                | 5                | 0.2              | <5               | 1576             | 63 Co               |
| 14516            | Location: 535 m up Ridgeway Cr.<br>Rock Type: Conglomerage<br>Occurrence Type, Size: Float<br><br>Same as 14515                                                                            | 5                | 0.2              | <5               | 761              |                     |
| 14517            | Location: On Ridgeway Creek, 40 m<br>north of S11A<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 5cm<br>wide<br><br>Bluish white quartz with 15% Py and<br>2% Cp.           | 5                | 0.2              | 5                | 415              |                     |
| 14518            | Location: On Ridgeway Creek, 40 m<br>north of S11A<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Outcrop, Large<br><br>Greyish green conglomerate with 5% Py<br>and disseminated Po | 5                | 0.2              | <5               | 393              |                     |





| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                           | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 14519            | Location: 25m to the west of E. Fork<br>Ridgeway Cr. on S11A Rd.<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Outcrop. Large<br><br>Bluish grey conglomerate with 5% Py                                              | 5                | 0.2              | <5               | 471              |                     |
| 14520            | Location: On S11A Rd, 73 m to the<br>west of Ridgeway Cr.<br>Rock Type: Quartz Veinlet<br>Occurrence Type, Size: Outcrop,<br>5 cm wide<br><br>Milky white quartz veinlet with 15% Py.                                        | 20               | 0.6              | <5               | 1370             | 147 Co              |
| 14521            | Location: On S11A Rd, 40 m west of<br>west fork of Ridgeway Cr.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Pod<br><br>Grey-green-black siliceous siltstone<br>with 20% Py and 5% Cp.               | 5                | 2.4              | <5               | 1623             | 50 W                |
| 14522            | Location: On S11A Rd, 40 m west of west<br>fork of Ridgeway Cr.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Pod<br><br>Greyish green siliceous siltstone with<br>massive sulphides Py, Cp, Po and ? | 20               | 3.4              | <5               | 4139             | 182 Co<br>60 W      |
| 14523            | Location: On S11A Rd, 40 m west of<br>west fork of Ridgeway Cr.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Pod<br><br>Same as 14522                                                                | 10               | 4.2              | <5               | 5057             | 138 Co<br>310 W     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                     | <u>Au</u><br>ppb  | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|------------------|------------------|---------------------|
| 14524            | Location: On S11A Rd, 40 m west of<br>west fork of Ridgeway Cr.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Pod<br><br>Same as 14522                                          | 5                 | 4.4              | <5               | 2974             | 166 Co<br>30 W      |
| 14525            | Location: 5m from sample 14519<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Float<br><br>Greyish green siliceous siltstone<br>with 10% Py and 1% Cp.                                    | 5                 | 0.4              | 15               | 1320             | 63 Co               |
| 14526            | Location: On S11A Rd, 40 west of<br>west fork of Ridgeway Cr.<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop,<br>5 cm wide vein<br><br>Bluish white quartz vein with 15% Py<br>and 2% Cp. | 200<br>0.006 oz/t | 0.2              | <5               | 539              |                     |
| 14527            | Location: on Spur off 'M8'(no name)<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop. Large<br><br>Greyish green siliceous siltstone<br>with 5% Py.                                 | 5                 | 0.2              | <5               | 251              |                     |
| 14528            | Location: on Spur of 'M8'.<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop, Large<br><br>Greyish green siliceous siltstone<br>with disseminated Py and Po.                         | 5                 | 0.2              | 5                | 77               |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 14529            | Location: on 'M4', 754 m east of<br>Mike 3 LCP<br>Rock Type: Diabase (Gabbro)<br>Occurrence Type, Size: Float<br><br>Dark Green diabase (gabbro) with<br>5% @ disseminated Py and Cp.                             | 20               | 0.8              | 15               | 1705             | 65 Co               |
| 14530            | Location: on 'M4', 730m east of<br>Mike 3, LCP<br>Rock Type: Argillite<br>Occurrence Type, Size: Outcrop. Large<br><br>Black argillite with quartz stringers<br>with traces of Py and limonite staining.          | 5                | 0.2              | <5               | 36               |                     |
| 14531            | Location: on 'M4', 454 m east of<br>Mike 3, LCP<br>Rock Type: Siliceous Siltstone<br>Occurrence Type, Size: Outcrop. Large.<br><br>Black siliceous siltstone with<br>disseminated Py.                             | 5                | 0.2              | <5               | 133              |                     |
| 14532            | Location: 330 m north of intersection<br>at Mike 3 LCP, on unnamed road<br>Rock Type: Conglomerate<br>Occurrence Type, Size: Float<br><br>Bluish grey conglomerate with 2% Cp<br>and 5% Py and Po (disseminated). | 5                | 0.6              | 15               | 616              | 16 Mo               |
| 14533            | Location: 275 m north of Mike 3 LCP,<br>at intersection of three<br>roads.<br>Rock Type: Argillite<br>Occurrence Type, Size: Outcrop. Large.<br><br>Black argillite with 2% Py. Banded.                           | 5                | 0.2              | 5                | 48               |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                 | <u>Au</u><br>ppb  | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|------------------|------------------|---------------------|
| 14534            | Location: 760 m north of Mike 3 LCP,<br>at intersection of three<br>roads.<br>Rock Type: Argillite<br>Occurrence Type, Size: Outcrop. Large<br><br>Black argillite with fracture<br>filling Py.    | 5                 | 0.4              | < 5              | 100              |                     |
| 14535            | Location: on 'M8', 330 m south of<br>Carmichael Creek<br>Rock Type: Quartz Veinlet<br>Occurrence Type, Size: Outcrop, 5cm wide<br>Vein<br><br>Milky white quartz veinlet with 15% Py<br>and 1% Cp. | 5                 | 0.6              | 10               | 549              |                     |
| 14536            | Location: on 'M8', 930 m north of<br>Carmichael Creek.<br>Rock Type: Quartz<br>Occurrence Type, Size: Float<br><br>Milky white quartz with 10% Py and<br>2% Cp.                                    | 5                 | 0.6              | 5                | 188              |                     |
| 14537            | Location: End of 'M8'<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop,<br>10 cm wide vein.<br><br>Bluish white quartz vein with 5% Py<br>and 5% Cp.                                    | 480<br>0.015 oz/t | 0.4              | 55               | 267              |                     |
| 14538            | Location: End of 'M8'<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop,<br>10 cm wide vein.<br><br>Bluish white quartz vein with 5% Py<br>and 5% Cp.                                    | 940<br>0.037 oz/t | 1.0              | 120              | 1005             |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                 | <u>Au</u><br>ppb   | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|---------------------|
| 14539            | Location: End of 'M8'<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop,<br>10 cm wide vein.                                                                                                                             | 580<br>0.021 oz/t  | 0.2              | 150              | 322              |                     |
|                  | Same as 14538                                                                                                                                                                                                                      |                    |                  |                  |                  |                     |
| 14540            | Location: Resample of 3426, 3427,<br>3 km up South Road from<br>Chemainus Main Junction.<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop.<br>53 cm wide vein.<br><br>Milky white quartz vein with 15% Cp<br>and 5% Py. | 300<br>0.007 oz/t  | 2.8              | <5               | 10000            |                     |
| 14541            | Location: South Boundary of Mike 1, at<br>junction of two unnamed<br>roads.<br>Rock Type: Tuff<br>Occurrence Type, Size: Float<br><br>Black tuff with 5% fracture filling Py.                                                      | 5                  | 0.6              | 10               | 199              | 280 Ba              |
| 14542            | Location: Same as 3949, near silt M1 on<br>Mike No. 3 Claim.<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop,<br>15 cm wide vein.<br><br>Milky white quartz vein with<br>15% Cp and 10% Py.                            | 180<br>0.005 oz/t  | 2.0              | 790              | 9720             |                     |
| 14546            | Location: Resample of 3437, 3438.<br>Main showing on S11A Rd,<br>0+00N,0+00E.<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop,<br>25 cm wide vein.<br><br>Bluish white quartz vein with<br>15% Cp and 15% Py.          | 4600<br>0.176 oz/t | 3.0              | 70               | 783              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>Au</u><br>ppb | <u>Ag</u><br>ppm  | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|------------------|------------------|---------------------|
| 14833            | Location: Mike Grid. 1+02E,1+47N<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop,<br>1-2 cm wide vein,<br>exposed for <math>\frac{1}{2}</math> m.<br><br>White to bluish-grey quartz with<br>-1-2% fine grained disseminated<br>dark grey mineral which may give<br>quartz the bluish-grey colour.<br>-2% fined grained disseminated Py.<br>Vein is hosted in dark brown<br>siliceous siltstone. Whole area is<br>gossanous and fractured although<br>no major structure was observed. | 11200            | 1.2<br>0.35 oz/t  | 840              | 362              | 60 Pb               |
| 14834            | Location: Mike Grid. 1+00E,1+47N<br>Rock Type: Quartz Vein and<br>Silicified Siltstone<br>Occurrence Type, Size: Sub-Outcrop.<br><br>White quartz, white-grey silicified<br>siltstone. Vein material contains<br>up to 1% Cp and trace of a pale<br>sulphide (Py?,As?). May be same<br>structure as 14833. Sub-Outcrop,<br>close to source. Host siltstones<br>fractured pyritic and limonitic.                                                                                                    | 150              | 1.2<br>0.004 oz/t | 110              | 920              |                     |
| 14835            | Location: Mike Grid. 1+00E,2+10N<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop,<br>2-4 cm vein,, exposed<br>for - 1 m.<br><br>Grey to bluish-grey quartz with<br>1-2% Py, trace Cp and 5% dark grey<br>metallic (may be arsenides) Re-sample<br>of 14045. Vein is similar in<br>appearance to main showing 200 m<br>to south. Vuggy, limonitic,<br>blue-grey.                                                                                                                        | 18000            | 1.4<br>0.550 oz/t | 930              | 474              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>Au</u><br>ppb | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 14836            | Location: Mike Grid. 1+00E,2+10N<br>Rock Type: Coarse Grained Arkose<br>or Wacke<br>Occurrence Type, Size: Outcrop.<br><br>Dark grey coarse grained arkose or<br>wacke with ~2-3% disseminated Py.<br>0.75 m chip from each side of vein<br>14835. Rock is a coarse grained<br>sandstone with sub rounded lithic<br>and feldspar crystal fragments to<br>1 mm in a fine grained dark grey<br>groundmass.                                                                                                                                         | 80               | 0.2              | 30               | 78               |                     |
| 14837            | Location: S11A Road, 42m west of west<br>fork of Ridgeway Creek<br>Rock Type: Sulphide Rich Gouge-Breccia<br>Occurrence Type, Size: Outcrop.<br>Shear 10-15 cm. Sulphide Pod<br>-5 cm wide x 20 cm x ?<br><br>Greyish black sulphide rich gouge-<br>breccia. Re-sample of 14521-24.<br>Outcrop scraped by cat and sulphides are<br>clearly related to shear zone in coarse<br>grained sandstone, siltstone and sed. bx.<br>Shear appears to have been in place and<br>later flooded by quartz and sulphides.<br>1 - 2 mm seams of Py cutting Po. | 5                | 2.2              | 5                | 1360             | 102 Co<br>390 W     |
| 14838            | Location: S11A Rd, 86 m west of west<br>fork of Ridgeway Creek.<br>Rock Type: Sheared Siltstone<br>Occurrence Type, Size: Outcrop, 10cm<br>wide shear<br><br>Dark light grey sheared siltstone.<br>Shear 47/73NW. Shear zone is ~10 cm<br>wide with pods of pyritic material up<br>to 5 cm wide (Py to 20%). Py is fine -<br>medium grained and predominantly fracture<br>controlled.                                                                                                                                                            | 5                | 0.6              | <5               | 327              | 150 W<br>127 Mo.    |



| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                   | <u>Au</u><br>ppb   | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|---------------------|
| 14839            | Location: S11A Road, 94m west of west fork of Ridgeway Creek<br>Rock Type: Quartz Vein and Alteration Zone<br>Occurrence Type, Size: Float<br><br>White-brown quartz vein. In part, pyritic quartz with pyrite to 20% in vugs. Most of the rock is a soft, porous, grey to limonitic, argillic hydrothermal alteration of sediments??<br>Quartz 20-30%, trace of Py. | 5                  | 1.8              | <5               | 229              | 10 W<br>44 Mo       |
| 14840            | Location: S11A Road. 124m west of west fork of Ridgeway Creek.<br>Rock Type: Sheared Siltstone<br>Occurrence Type, Size: Outcrop, 2-3 cm Shear<br><br>2-3 cm shear with 25% Py. Shear zone (40/75NW) in grey to ruddy brown cherty siltstone.                                                                                                                        | 5                  | 0.8              | 5                | 538              | 10 W                |
| 15010            | Location: West end of 'M8'<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 0.1m wide Vein<br><br>Light bluish grey quartz with 30% Py and 2% Cp. Extensive weathering of Py to a black soft material causes a vuggy appearance of the quartz vein.                                                                                                      | 2200<br>0.715 oz/t | 2.4              | 360              | 708              |                     |
| 15011            | Location: West end of 'M8'<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Outcrop, 0.1m wide Vein<br><br>Light bluish-grey with 5% Py and 1% Cp. Py weathering to black FeS.                                                                                                                                                                                    | 1620<br>0.062 oz/t | 0.8              | 35               | 578              |                     |





| <u>Sample No</u> | <u>Description</u>                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>Au</u><br>ppb   | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|---------------------|
| 15012            | Location: Junction of S9A and road to Mike Trench<br>Rock Type: Siliceous Sandstone with Quartz Vein<br>Occurrence Type, Size: Float<br><br>Light greenish brown siliceous sandstone and white quartz with 3% Py. Py occurs as blebs up to 4mm in the quartz vein and also along fracture planes in the host sandstone. Sandstone has undergone recrystallization.                                                                             | 5                  | 0.2              | 5                | 22               |                     |
| 15013            | Location: Junction of S9A and road to Mike Trench.<br>Rock Type: Siliceous Sandstone<br>Occurrence Type, Size: Float<br><br>Light greenish brown siliceous sandstone with $\leq 3\%$ Py. Siliceous recrystallized sandstone (same as host rock in sample 15012). Large calcite vein $\leq 2$ cm wide crosscutting. Angular inclusion (~1 cm) of siliceous sandstone in vein. Also small black angular inclusions $\leq 2$ mm. Py in fractures. | 5                  | 0.2              | 5                | 6                | 116 Zn              |
| 15014            | Location: West end 'M8'<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Float, 0.1 m wide, Near Outcrop.<br><br>Bluish grey quartz.                                                                                                                                                                                                                                                                                                        | 560<br>0.025 oz/t  | 0.2              | 20               | 70               |                     |
| 15015            | Location: West end 'M8'<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Float, 0.1 m wide, Near Outcrop.<br><br>Bluish grey quartz.                                                                                                                                                                                                                                                                                                        | 3800<br>0.062 oz/t | 0.2              | 80               | 656              |                     |



| <u>Sample No</u> | <u>Description</u>                                                                                                                         | <u>Au</u><br>ppb    | <u>Ag</u><br>ppm | <u>As</u><br>ppm | <u>Cu</u><br>ppm | <u>Other</u><br>ppm |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|------------------|------------------|---------------------|
| 15016            | Location: West end 'M8'<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Float,<br>0.1 m wide, Near Outcrop.<br><br>Bluish-grey quartz. | 5800<br>0.164 oz/t  | 0.4              | 145              | 437              |                     |
| 15017            | Location: West end 'M8'<br>Rock Type: Quartz Vein<br>Occurrence Type, Size: Float,<br>0.1 m wide, Near Outcrop.<br><br>Bluish grey quartz. | 24500<br>0.790 oz/t | 3.2              | 150              | 437              | 30 Sb               |



**APPENDIX III**

**CERTIFICATES  
OF  
ANALYSIS AND ASSAY**

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
301-409 GRANVILLE STREET  
VANCOUVER B.C.

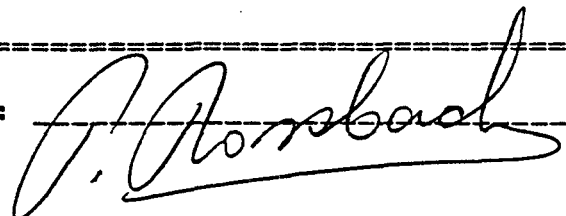
CERTIFICATE#: 86742.A  
INVOICE#: 7372  
DATE ENTERED: 87-01-14  
FILE NAME: MPH86742.A  
PAGE # : 1

PROJECT: V222  
TYPE OF ANALYSIS: ASSAY

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au |
|------------|-------------|------------|
| A          | 1403        | 0.022      |
| A          | 1429        | 0.100      |
| A          | 15348       | 0.160      |
| A          | 15350       | 0.082      |

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VANCOUVER B.C.

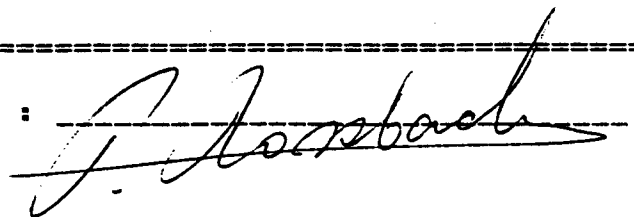
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INVOICE#: 7147  
DATE ENTERED: 86-11-05  
FILE NAME: MPH86596.B  
PAGE # : 1

PROJECT: V 222  
TYPE OF ANALYSIS: ASSAY

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au |
|------------|-------------|------------|
| A          | 3437        | 0.224      |
| A          | 3438        | 0.360      |

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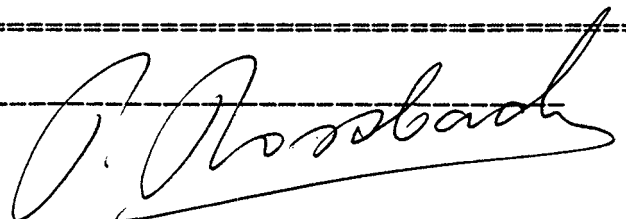
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301-409 GRANVILLE STREET  
VANCOUVER B.C.

CERTIFICATE#: 87008.A  
INVOICE#: 7419  
DATE ENTERED: 87-02-20  
FILE NAME: MPFB7008.A  
PAGE # : 1

PROJECT: V222  
TYPE OF ANALYSIS: ASSAY

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au |
|------------|-------------|------------|
| A          | 4103        | 0.012      |
| A          | 4105        | 0.003      |
| A          | 4207        | 0.025      |
| A          | 4208        | 0.035      |
| A          | 4217        | 0.001      |
| A          | 4221        | 0.007      |
| A          | 4226        | 0.008      |
| A          | 4246        | 0.083      |
| A          | 4249        | 0.009      |
| A          | 4141        | 0.005      |
| A          | 4142        | 0.004      |
| A          | 4143        | 0.005      |
| A          | 4145        | 0.004      |
| A          | 4147        | 0.004      |
| A          | 4148        | 0.005      |
| A          | 4165        | 0.049      |

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CERTIFICATE OF ANALYSIS

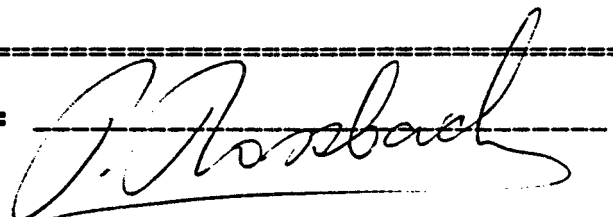
TO : MPH CONSULTING LTD.,  
301-409 GRANVILLE ST.,  
VANCOUVER, B.C.  
PROJECT: V222  
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 86684.A  
INVOICE#: 7266  
DATE ENTERED: 86-12-08  
FILE NAME: MPH86684.A  
PAGE # : 1

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au |
|------------|-------------|------------|
| A          | 14033       | 0.007      |
| A          | 14042       | 0.010      |
| A          | 14045       | 0.650      |
| A          | 14046       | 0.033      |
| A          | 14069       | 0.164      |
| A          | 14070       | 0.007      |
| A          | 14072       | 0.784      |
| A          | 14075       | 0.440      |
| A          | 14077       | 0.013      |
| A          | 14078       | 1.750      |
| A          | 14079       | 0.007      |
| A          | 14081       | 0.636      |
| A          | 14084       | 0.330      |
| A          | 14085       | 0.012      |
| A          | 14087       | 0.252      |
| A          | 14089       | 0.172      |
| A          | 14091       | 0.004      |

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CERTIFICATE OF ANALYSIS

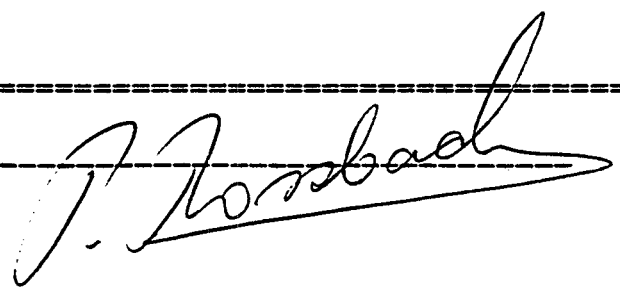
TO : MPH CONSULTING LTD.  
301-409 GRANVILLE STREET  
VANCOUVER B.C.  
PROJECT: V222  
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 86642.B  
INVOICE#: 7258  
DATE ENTERED: 86-12-04  
FILE NAME: MPH86642.B  
PAGE # : 1

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au |
|------------|-------------|------------|
| A          | 14508       | 0.010      |
| A          | 14526       | 0.006      |
| A          | 14537       | 0.015      |
| A          | 14538       | 0.037      |
| A          | 14539       | 0.021      |
| A          | 14540       | 0.007      |
| A          | 14542       | 0.005      |
| A          | 14546       | 0.176      |

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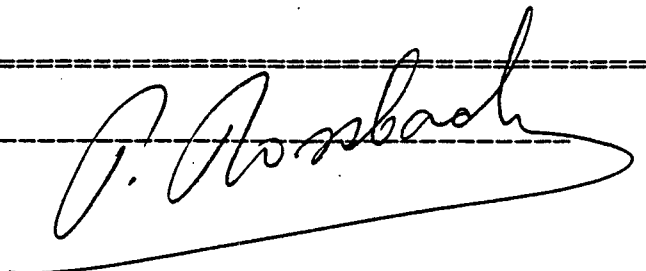
TO : MPH CONSULTING LTD.  
301-409 GRANVILLE STREET  
VANCOUVER B.C.  
PROJECT: V 222  
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 86642.A  
INVOICE#: 7358  
DATE ENTERED: 87-01-02  
FILE NAME: MPH86642.A  
PAGE # : 1

| PRE<br>FIX | SAMPLE NAME | %<br>Cu |
|------------|-------------|---------|
| A          | 14540       | 1.34    |

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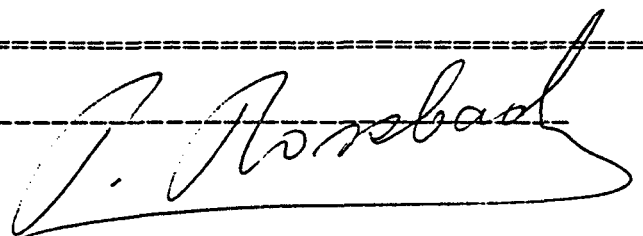
TO : MPH CONSULTING LTD.  
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VANCOUVER B.C.

CERTIFICATE#: 86697.A  
INVOICE#: 7310  
DATE ENTERED: 86-12-18  
FILE NAME: MPH86697.A  
PAGE # : 1

PROJECT: V222  
TYPE OF ANALYSIS: ASSAY

| PRE<br>IX | SAMPLE NAME | oz/t<br>Au |
|-----------|-------------|------------|
| A         | 14833       | 0.350      |
| A         | 14834       | 0.004      |
| A         | 14835       | 0.550      |

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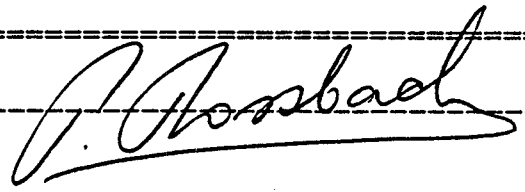
CERTIFICATE#: 86729.A  
INVOICE#: 7349  
DATE ENTERED: 86-12-30  
FILE NAME: MPH86729.A  
PAGE #: 1

PROJECT: V 222  
TYPE OF ANALYSIS: ASSAY

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au |
|------------|-------------|------------|
| A          | 15010       | 0.715      |
| A          | 15011       | 0.062      |
| A          | 15322       | 0.060      |
| A          | 15324       | 0.030      |

*rec'd Dec 31/86*

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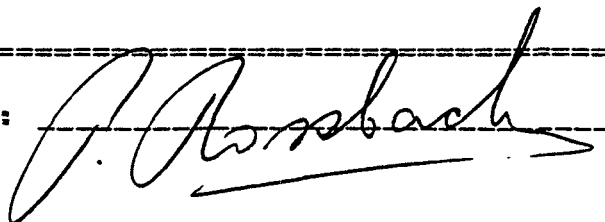
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INVOICE#: 7376  
DATE ENTERED: 87-01-16  
FILE NAME: MPH86748.A  
PAGE # : 1

PROJECT: V222  
TYPE OF ANALYSIS: ASSAY

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au I | oz/T<br>Au II |
|------------|-------------|--------------|---------------|
| A          | 15014       | 0.025        |               |
| A          | 15015       | 0.062        |               |
| A          | 15016       | 0.164        |               |
| A          | 15017       | 0.790        | 0.750         |

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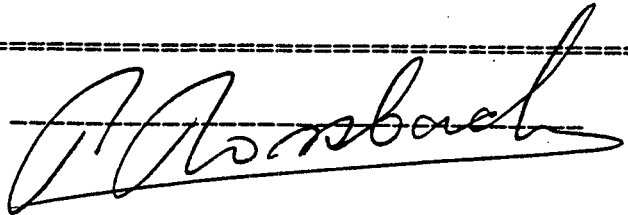
**CERTIFICATE OF ANALYSIS**

CLIENT: MPH CONSULTING LTD.  
 301-409 GRANVILLE STREET  
 VANCOUVER B.C.  
 PROJECT: V 222  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 86742  
 INVOICE#: 7342  
 DATE ENTERED: 86-12-30  
 FILE NAME: MPH86742  
 PAGE #: 1

| INDEX | SAMPLE NAME | PPB Au |
|-------|-------------|--------|
| A     | 1401        | 5      |
| A     | 1402        | 5      |
| A     | 1403        | 940    |
| A     | 1404        | 5      |
| A     | 1405        | 5      |
| A     | 1406        | 5      |
| A     | 1407        | 5      |
| A     | 1408        | 5      |
| A     | 1409        | 5      |
| A     | 1410        | 5      |
| A     | 1411        | 5      |
| A     | 1412        | 5      |
| A     | 1413        | 5      |
| A     | 1414        | 5      |
| A     | 1415        | 5      |
| A     | 1416        | 5      |
| A     | 1417        | 5      |
| A     | 1418        | 5      |
| A     | 1419        | 5      |
| A     | 1420        | 5      |
| A     | 1421        | 5      |
| A     | 1422        | 5      |
| A     | 1423        | 5      |
| A     | 1424        | 5      |
| A     | 1425        | 5      |
| A     | 1426        | 5      |
| A     | 1427        | 5      |
| A     | 1428        | 5      |
| A     | 1429        | 3800   |
| A     | 1430        | 5      |
| A     | 1431        | 5      |
| A     | 1432        | 5      |
| A     | 1433        | 5      |
| A     | 1434        | 5      |
| A     | 1435        | 5      |
| A     | 1436        | 5      |
| A     | 1437        | 5      |
| A     | 1438        | 5      |
| A     | 1439        | 5      |
| A     | 1440        | 5      |

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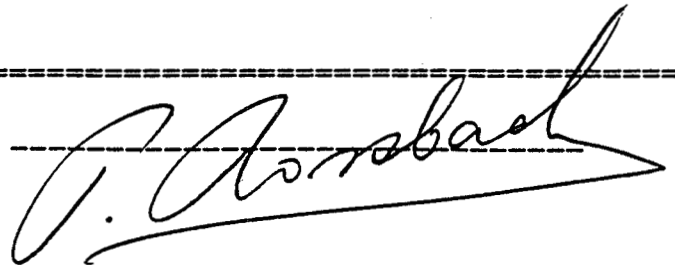
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INVOICE#: 7342  
DATE ENTERED: 86-12-30  
FILE NAME: MPH86742  
PAGE # : 2

PROJECT: V 222  
TYPE OF ANALYSIS: GEOCHEMICAL

| REP<br>PIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 1441        | 5         |
| A          | 1442        | 5         |
| A          | 1443        | 5         |
| A          | 1444        | 5         |
| A          | 1445        | 5         |
| A          | 1446        | 5         |
| A          | 1447        | 5         |
| A          | 1448        | 5         |
| A          | 1449        | 5         |
| A          | 1450        | 5         |
| A          | 1451        | 5         |
| A          | 1452        | 5         |
| A          | 1453        | 5         |
| A          | 1454        | 5         |
| A          | 1455        | 5         |
| A          | 1456        | 5         |
| A          | 1457        | 5         |
| A          | 1458        | 5         |
| A          | 1459        | 5         |
| A          | 1460        | 5         |
| A          | 1461        | 5         |
| A          | 1462        | 5         |
| A          | 1463        | 5         |
| A          | 1464        | 5         |
| A          | 1465        | 5         |
| A          | 1466        | 40        |
| A          | 1467        | 5         |
| A          | 1468        | 5         |
| A          | 1469        | 5         |
| A          | 1470        | 5         |
| A          | 1471        | 5         |
| A          | 1472        | 5         |
| A          | 1473        | 5         |
| A          | 1474        | 5         |
| A          | 1475        | 5         |
| A          | 1476        | 5         |
| A          | 1477        | 5         |
| A          | 1478        | 5         |
| A          | 1479        | 5         |
| A          | 1480        | 5         |

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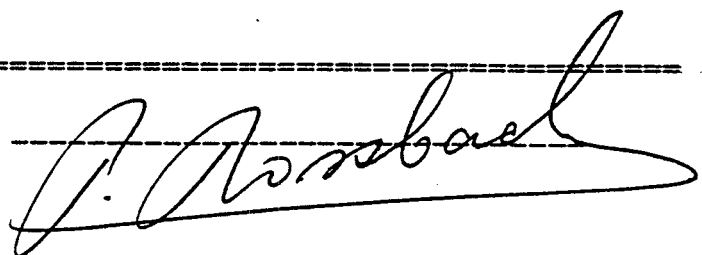
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 INVOICE#: 7342  
 DATE ENTERED: 86-12-30  
 FILE NAME: MPH86742  
 PAGE # : 3

PROJECT: V 222  
 TYPE OF ANALYSIS: GEOCHEMICAL

| RE<br>FIX | SAMPLE NAME | PPB<br>Au |
|-----------|-------------|-----------|
| A         | 1481        | 5         |
| A         | 1482        | 5         |
| A         | 1483        | 5         |
| A         | 1484        | 5         |
| A         | 1485        | 5         |
| A         | 1486        | 5         |
| A         | 1487        | 5         |
| A         | 1488        | 5         |
| A         | 1489        | 10        |
| A         | 1490        | 5         |
| A         | 1491        | 5         |
| A         | 1492        | 20        |
| A         | 1493        | 5         |
| A         | 1494        | 5         |
| A         | 1495        | 5         |
| A         | 1496        | 80        |
| A         | 1497        | 20        |
| A         | 1498        | 20        |
| A         | 1499        | 5         |
| A         | 1500        | 5         |
| A         | 4201        | 5         |
| A         | 4202        | 5         |
| A         | 4203        | 5         |
| A         | 4204        | 5         |
| A         | 4205        | 5         |
| A         | 4206        | 5         |
| A         | 15332       | 5         |
| A         | 15333       | 5         |
| A         | 15334       | 5         |
| A         | 15335       | 5         |
| A         | 15336       | 5         |
| A         | 15337       | 5         |
| A         | 15338       | 5         |
| A         | 15339       | 5         |
| A         | 15340       | 5         |
| A         | 15341       | 30        |
| A         | 15342       | 30        |
| A         | 15343       | 5         |
| A         | 15344       | 10        |
| A         | 15345       | 5         |

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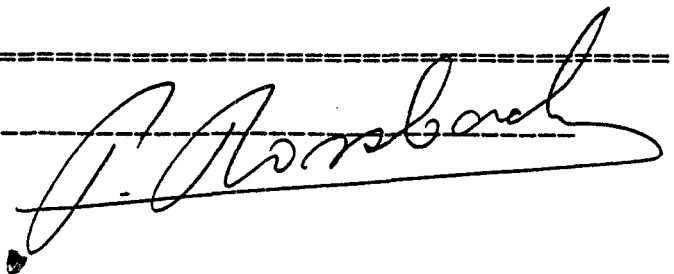
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INVOICE#: 7342  
DATE ENTERED: 86-12-30  
FILE NAME: MPH86742  
PAGE # : 4

PROJECT: V 222  
TYPE OF ANALYSIS: GEOCHEMICAL

| RE<br>FIX | SAMPLE NAME | PPB<br>Au |
|-----------|-------------|-----------|
| A         | 15346       | 5         |
| A         | 15347       | 5         |
| A         | 15348       | 5900      |
| A         | 15349       | 50        |
| A         | 15350       | 3000      |

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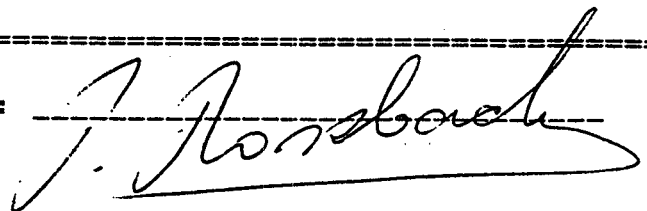
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 INVOICE#: 7083  
 DATE ENTERED: 86-10-26  
 FILE NAME: MPH86596  
 PAGE # : 1

PROJECT: V 222  
 TYPE OF ANALYSIS: GEOCHEMICAL

| RE<br>FIX | SAMPLE NAME | PPB<br>Au |
|-----------|-------------|-----------|
| A         | 3421        | 5         |
| A         | 3422        | 5         |
| A         | 3423        | 5         |
| A         | 3424        | 5         |
| A         | 3425        | 10        |
| A         | 3426        | 80        |
| A         | 3427        | 20        |
| A         | 3428        | 100       |
| A         | 3429        | 5         |
| A         | 3430        | 5         |
| A         | 3431        | 40        |
| A         | 3432        | 40        |
| A         | 3433        | 5         |
| A         | 3434        | 5         |
| A         | 3435        | 5         |
| A         | 3436        | 5         |
| A         | 3437        | 6900      |
| A         | 3438        | 11000     |
| A         | 3439        | 40        |
| A         | 3440        | 10        |
| A         | 3441        | 20        |
| A         | 3442        | 5         |
| A         | 3443        | 5         |
| A         | 3444        | 5         |
| A         | 3445        | 60        |
| A         | 3446        | 200       |
| A         | 3447        | 90        |
| A         | 3448        | 10        |
| A         | 3449        | 60        |
| A         | 3450        | 5         |
| A         | 3951        | 5         |
| A         | 3952        | 5         |
| A         | 3953        | 70        |
| A         | 3954        | 20        |
| A         | 3955        | 5         |
| A         | 3956        | 20        |
| A         | 3957        | 5         |
| A         | 3958        | 5         |
| A         | 3959        | 5         |
| A         | 3960        | 5         |

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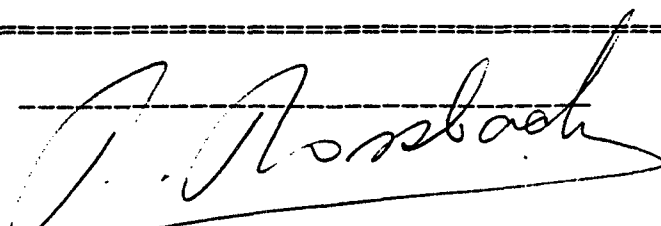
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CERTIFICATE#: 86596  
INVOICE#: 7083  
DATE ENTERED: 86-10-26  
FILE NAME: MPH86596  
PAGE # : 2

PROJECT: V 222  
TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 3961        | 30        |
| A          | 3962        | 60        |
| A          | 3963        | 5         |
| A          | 3964        | 5         |
| A          | 3965        | 5         |
| A          | 3966        | 20        |
| A          | 3967        | 5         |
| L          | M 1         | 10        |
| L          | M 2         | 5         |

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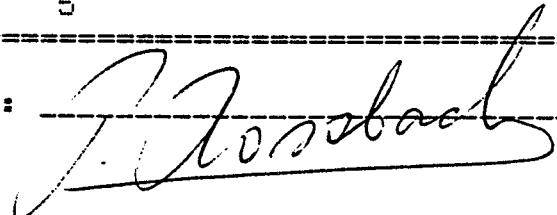
CERTIFICATE#: 87008  
 INVOICE#: 7385  
 DATE ENTERED: 87-01-20  
 FILE NAME: MPH87008  
 PAGE # : 1

PROJECT: V222  
 TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | -100M<br>Au PPB | +100M<br>Au PPB |
|------------|-------------|-----------------|-----------------|
| A          | 4101        | 60              |                 |
| A          | 4102        | 5               | 5               |
| A          | 4103        | 230             | 60              |
| A          | 4104        | 10              | 5               |
| A          | 4105        | 100             |                 |
| A          | 4106        | 5               | 5               |
| A          | 4107        | 5               | 5               |
| A          | 4108        | 5               | 5               |
| A          | 4109        | 5               | 5               |
| A          | 4110        | 5               | 5               |
| A          | 4111        | 5               |                 |
| A          | 4112        | 5               |                 |
| A          | 4113        | 5               |                 |
| A          | 4114        | 5               | 5               |
| A          | 4115        | 5               | 5               |
| A          | 4116        | 5               | 5               |
| A          | 4117        | 5               | 5               |
| A          | 4118        | 5               | 5               |
| A          | 4119        | 5               | 5               |
| A          | 4120        | 5               | 5               |
| A          | 4121        | 5               | 5               |
| A          | 4122        | 5               | 5               |
| A          | 4123        | 10              | 5               |
| A          | 4124        | 5               | 5               |
| A          | 4125        | 30              | 5               |
| A          | 4126        | 50              | 5               |
| A          | 4127        | 5               | 5               |
| A          | 4128        | 5               | 5               |
| A          | 4129        | 5               | 5               |
| A          | 4130        | 5               | 5               |
| A          | 4131        | 5               | 5               |
| A          | 4132        | 5               | 5               |
| A          | 4133        | 5               | 5               |
| A          | 4134        | 5               | 5               |
| A          | 4135        | 5               | 5               |
| A          | 4136        | 5               | 5               |
| A          | 4137        | 5               | 5               |
| A          | 4138        | 5               |                 |
| A          | 4139        | 5               | 5               |
| A          | 4140        | 5               | 5               |

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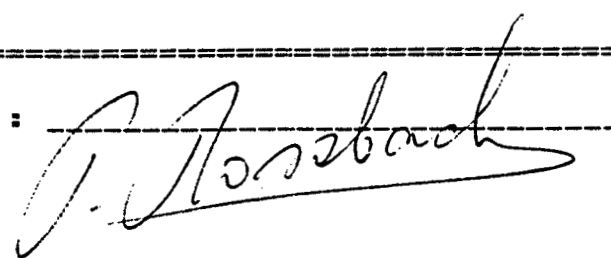
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INVOICE#: 7390  
DATE ENTERED: 87-01-22  
FILE NAME: MPH87009  
PAGE # : 1

PROJECT: V222  
TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 4141        | 150       |
| A          | 4142        | 130       |
| A          | 4143        | 130       |
| A          | 4144        | 70        |
| A          | 4145        | 110       |
| A          | 4146        | 70        |
| A          | 4147        | 100       |
| A          | 4148        | 110       |
| A          | 4149        | 20        |
| A          | 4150        | 20        |
| A          | 4151        | 40        |
| A          | 4152        | 10        |
| A          | 4153        | 10        |
| A          | 4154        | 20        |
| A          | 4155        | 10        |
| A          | 4156        | 30        |
| A          | 4157        | 5         |
| A          | 4158        | 5         |
| A          | 4159        | 50        |
| A          | 4160        | 5         |
| A          | 4161        | 5         |
| A          | 4162        | 50        |
| A          | 4163        | 5         |
| A          | 4164        | 10        |
| A          | 4165        | 980       |
| A          | 4166        | 5         |
| A          | 4167        | 60        |
| A          | 4168        | 5         |
| A          | 4169        | 5         |
| A          | 4170        | 10        |
| A          | 4171        | 5         |
| A          | 4172        | 5         |
| A          | 4173        | 20        |
| A          | 4174        | 5         |
| A          | 4175        | 5         |
| A          | 4176        | 50        |
| A          | 4177        | 5         |
| A          | 4178        | 5         |
| A          | 4179        | 5         |
| A          | 4180        | 5         |

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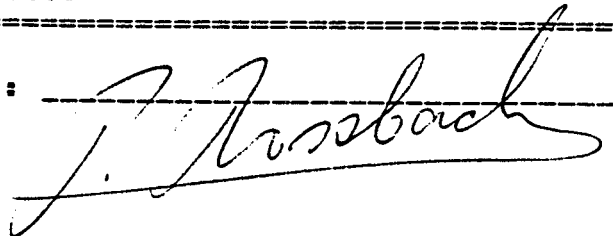
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CERTIFICATE#: 87008  
 INVOICE#: 7385  
 DATE ENTERED: 87-01-20  
 FILE NAME: MPH87008  
 PAGE # : 2

PROJECT: V222  
 TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | -100M<br>Au PPB | +100M<br>Au PPB |
|------------|-------------|-----------------|-----------------|
| A          | 4207        | 420             | 5               |
| A          | 4208        | 1200            |                 |
| A          | 4209        | 10              | 5               |
| A          | 4210        | 5               | 5               |
| A          | 4211        | 30              | 5               |
| A          | 4212        | 5               | 5               |
| A          | 4213        | 5               | 5               |
| A          | 4214        | 5               |                 |
| A          | 4215        | 5               | 5               |
| A          | 4216        | 5               | 5               |
| A          | 4217        | 370             |                 |
| A          | 4218        | 5               | 5               |
| A          | 4219        | 5               | 5               |
| A          | 4220        | 20              | 5               |
| A          | 4221        | 170             | 5               |
| A          | 4222        | 20              | 5               |
| A          | 4223        | 10              | 5               |
| A          | 4224        | 30              | 5               |
| A          | 4225        | 50              | 5               |
| A          | 4226        | 210             | 5               |
| A          | 4227        | 50              | 5               |
| A          | 4228        | 5               | 5               |
| A          | 4229        | 5               | 5               |
| A          | 4230        | 5               | 5               |
| A          | 4231        | 5               | 5               |
| A          | 4232        | 5               | 5               |
| A          | 4233        | 5               | 5               |
| A          | 4234        | 5               | 5               |
| A          | 4235        | 5               | 5               |
| A          | 4236        | 5               | 5               |
| A          | 4237        | 5               | 5               |
| A          | 4238        | 5               | 5               |
| A          | 4239        | 5               | 5               |
| A          | 4240        | 5               | 5               |
| A          | 4241        | 5               | 5               |
| A          | 4242        | 5               | 5               |
| A          | 4243        | 5               | 5               |
| A          | 4244        | 5               | 5               |
| A          | 4245        | 5               | 5               |
| A          | 4246        | 1560            | 1000            |

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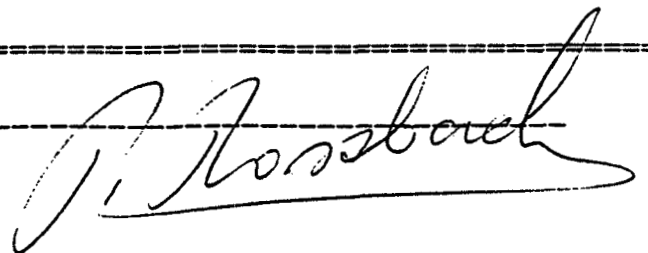
CERTIFICATE OF ANALYSIS

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VANCOUVER B.C.  
PROJECT: V222  
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87008  
INVOICE#: 7385  
DATE ENTERED: 87-01-20  
FILE NAME: MPH87008  
PAGE # : 3

| PRE<br>FIX | SAMPLE NAME | -100M<br>Au PPB | +100M<br>Au PPB |
|------------|-------------|-----------------|-----------------|
| A          | 4247        | 5               | 5               |
| A          | 4248        | 5               | 5               |
| A          | 4249        | 210             | 100             |
| A          | 4250        | 5               | 5               |

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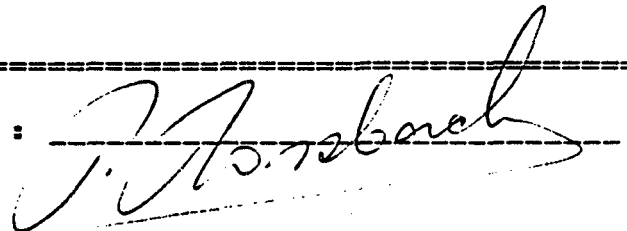
CERTIFICATE#: 86663  
INVOICE#: 7227  
DATE ENTERED: 86-11-29  
FILE NAME: MPH86663  
PAGE # : 1

PROJECT: V 222  
TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 3929        | 5         |
| A          | 14001       | 20        |
| A          | 14002       | 10        |
| A          | 14003       | 5         |
| A          | 14051       | 5         |
| A          | 14052       | 80        |
| A          | 14053       | 5         |
| A          | 14054       | 5         |
| A          | 14055       | 5         |

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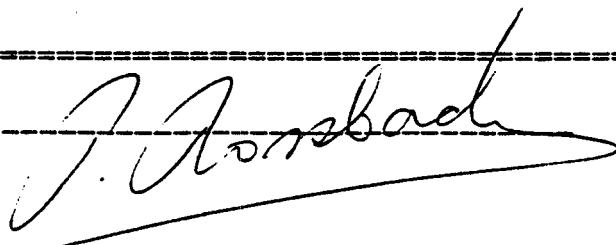
TO : MPH CONSULTING LTD.  
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 VANCOUVER B.C.  
 PROJECT: V 222  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 86684  
 INVOICE#: 7229  
 DATE ENTERED: 86-11-28  
 FILE NAME: MPH86684  
 PAGE # : 1

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 14029       | 5         |
| A          | 14030       | 5         |
| A          | 14031       | 5         |
| A          | 14032       | 5         |
| A          | 14033       | 170       |
| A          | 14034       | 5         |
| A          | 14035       | 5         |
| A          | 14036       | 5         |
| A          | 14037       | 10        |
| A          | 14038       | 5         |
| A          | 14039       | 5         |
| A          | 14040       | 5         |
| A          | 14041       | 5         |
| A          | 14042       | 230       |
| A          | 14043       | 70        |
| A          | 14044       | 10        |
| A          | 14045       | 25500     |
| A          | 14046       | 1060      |
| A          | 14056       | 5         |
| A          | 14057       | 5         |
| A          | 14058       | 10        |
| A          | 14059       | 5         |
| A          | 14060       | 5         |
| A          | 14061       | 5         |
| A          | 14062       | 5         |
| A          | 14063       | 5         |
| A          | 14068       | 5         |
| A          | 14069       | 4700      |
| A          | 14070       | 230       |
| A          | 14071       | 5         |
| A          | 14072       | 27000     |
| A          | 14073       | 30        |
| A          | 14074       | 50        |
| A          | 14075       | 13400     |
| A          | 14076       | 5         |
| A          | 14077       | 290       |
| A          | 14078       | 52000     |
| A          | 14079       | 120       |
| A          | 14080       | 80        |
| A          | 14081       | 23000     |

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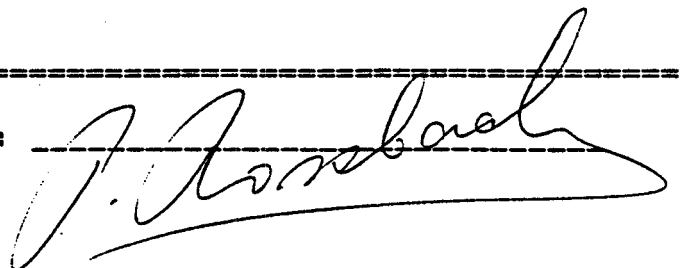
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VANCOUVER B.C.  
PROJECT: V 222  
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 86684  
INVOICE#: 7229  
DATE ENTERED: 86-11-28  
FILE NAME: MPH86684  
PAGE # : 2

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 14082       | 40        |
| A          | 14083       | 5         |
| A          | 14084       | 12200     |
| A          | 14085       | 180       |
| A          | 14086       | 5         |
| A          | 14087       | 9200      |
| A          | 14088       | 5         |
| A          | 14089       | 5400      |
| A          | 14090       | 50        |
| A          | 14091       | 160       |
| A          | 14092       | 30        |
| A          | 14093       | 80        |
| L          | N-12 #1     | 5         |
| L          | N-12 #2     | 5         |
| L          | N-12 #3     | 5         |
| L          | N-15 #1     | 5         |
| L          | N-15 #2     | 5         |

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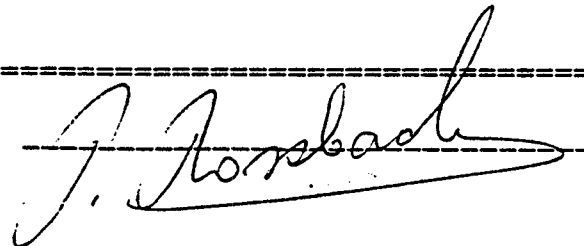
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 DATE ENTERED: 86-11-06  
 FILE NAME: MPH86619  
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PROJECT: V 222  
 TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 14503       | 5         |
| A          | 14504       | 60        |
| A          | 14505       | 5         |
| A          | 14506       | 5         |
| A          | 14507       | 5         |
| A          | 14508       | 300       |
| A          | 14509       | 40        |
| A          | 14510       | 5         |
| A          | 14511       | 20        |
| A          | 14512       | 5         |
| A          | 14513       | 5         |
| A          | 14514       | 5         |
| A          | 14515       | 5         |
| A          | 14516       | 5         |
| A          | 14517       | 5         |
| A          | 14518       | 5         |
| A          | 14519       | 5         |
| A          | 14520       | 20        |
| A          | 14521       | 5         |
| A          | 14522       | 20        |
| A          | 14523       | 10        |
| A          | 14524       | 5         |
| L          | M3          | 5         |
| L          | M4          | 5         |
| L          | M5          | 5         |
| L          | M6          | 5         |
| L          | M7          | 5         |

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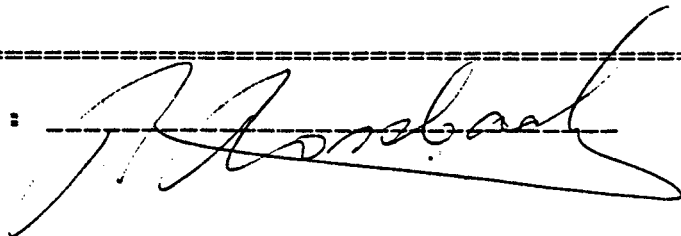
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FILE NAME: MPH86642  
PAGE # : 1

PROJECT: V 222  
TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 14525       | 5         |
| A          | 14526       | 200       |
| A          | 14527       | 5         |
| A          | 14528       | 5         |
| A          | 14529       | 20        |
| A          | 14530       | 5         |
| A          | 14531       | 5         |
| A          | 14532       | 5         |
| A          | 14533       | 5         |
| A          | 14534       | 5         |
| A          | 14535       | 5         |
| A          | 14536       | 5         |
| A          | 14537       | 480       |
| A          | 14538       | 940       |
| A          | 14539       | 580       |
| A          | 14540       | 300       |
| A          | 14541       | 5         |
| A          | 14542       | 180       |
| A          | 14546       | 4600      |
| L          | M-08        | 5         |
| L          | M-09        | 5         |
| L          | M-10        | 5         |
| L          | M-11        | 5         |
| L          | M-12        | 5         |
| L          | M-13        | 5         |
| L          | M-14        | 5         |
| L          | M-15        | 5         |
| L          | M-16        | 5         |
| L          | M-17        | 5         |
| L          | M-18        | 5         |
| L          | M-20        | 5         |

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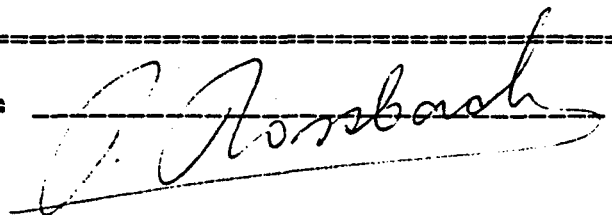
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DATE ENTERED: 86-12-12  
FILE NAME: MPH86697  
PAGE # : 1

PROJECT: V222  
TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 14833       | 11200     |
| A          | 14834       | 150       |
| A          | 14835       | 18000     |
| A          | 14836       | 80        |
| A          | 14837       | 5         |
| A          | 14838       | 5         |
| A          | 14839       | 5         |
| A          | 14840       | 5         |
| S          | GA SOIL M-1 | 5         |

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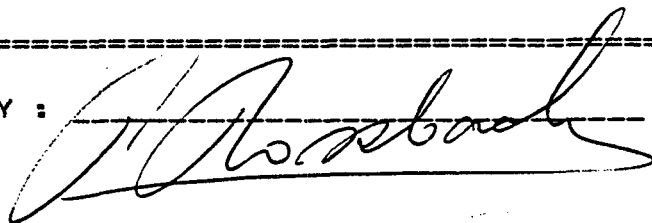
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DATE ENTERED: 86-12-19  
FILE NAME: MPH86729  
PAGE # : 1

PROJECT: V222  
TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 15010       | 22000     |
| A          | 15011       | 1620      |

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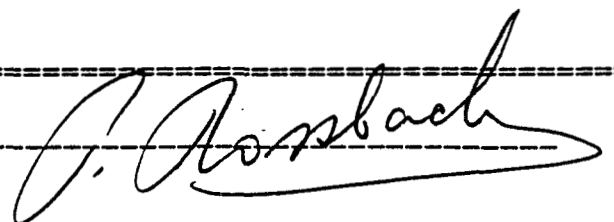
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FILE NAME: MPH86748  
PAGE # : 1

PROJECT: V 222  
TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 15012       | 5         |
| A          | 15013       | 5         |
| A          | 15014       | 560       |
| A          | 15015       | 3800      |
| A          | 15016       | 5800      |
| A          | 15017       | 24500     |

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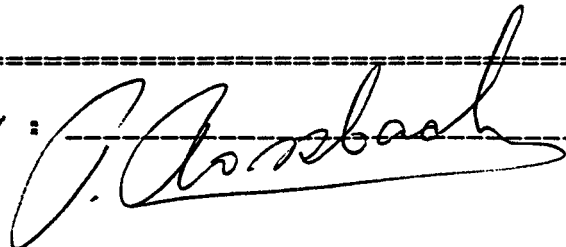
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DATE ENTERED: 86-12-19  
FILE NAME: MFH86727  
PAGE # : 1

PROJECT: V222  
TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| A          | 15301       | 5         |
| A          | 15302       | 5         |
| A          | 15303       | 5         |
| A          | 15304       | 5         |
| A          | 15305       | 5         |
| A          | 15306       | 5         |
| A          | 15307       | 5         |
| A          | 15308       | 5         |
| A          | 15309       | 5         |
| A          | 15310       | 5         |
| A          | 15311       | 5         |
| A          | 15312       | 5         |
| A          | 15313       | 5         |
| A          | 15314       | 5         |
| A          | 15315       | 5         |
| A          | 15316       | 5         |
| A          | 15317       | 5         |
| A          | 15318       | 5         |
| A          | 15319       | 5         |
| A          | 15320       | 5         |
| A          | 15321       | 5         |
| A          | 15322       | 1980      |
| A          | 15323       | 5         |
| A          | 15324       | 920       |
| A          | 15325       | 5         |
| A          | 15326       | 5         |
| A          | 15327       | 5         |
| A          | 15328       | 5         |
| A          | 15329       | 5         |
| A          | 15330       | 5         |
| A          | 15331       | 5         |

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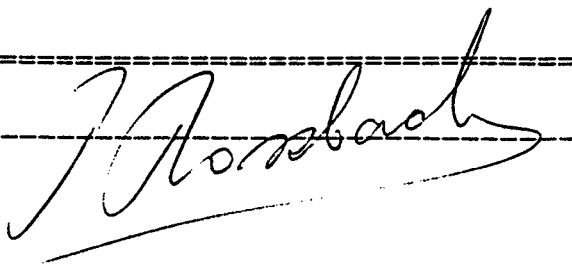
CLIENT : MPH CONSULTING LTD.  
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CERTIFICATE#: 86685  
 INVOICE#: 7247  
 DATE ENTERED: 86-12-03  
 FILE NAME: MPH86685  
 PAGE # : 1

PROJECT: V 222  
 TYPE OF ANALYSIS: GEOCHEMICAL

| PREFIX | SAMPLE NAME | PPB Au |
|--------|-------------|--------|
| S      | L OW 3+00N  | 5      |
| S      | 2+75N       | 5      |
| S      | 2+50N       | 5      |
| S      | 2+25N       | 5      |
| S      | 2+00N       | 5      |
| S      | 1+75N       | 5      |
| S      | 1+50N       | 20     |
| S      | 1+25N       | 70     |
| S      | 1+00N       | 5      |
| S      | 0+75N       | 5      |
| S      | 0+50N       | 5      |
| S      | 0+25N       | 5      |
| S      | 0+00        | 5      |
| S      | 0+25S       | 5      |
| S      | 0+50S       | 5      |
| S      | 0+75S       | 5      |
| S      | 1+00S       | 5      |
| S      | 1+25S       | 5      |
| S      | 1+50S       | 5      |
| S      | 1+75S       | 5      |
| S      | L OW 2+00S  | 5      |
| S      | L 1W 3+00N  | 60     |
| S      | 2+75N       | 5      |
| S      | 2+50N       | 5      |
| S      | 2+25N       | 5      |
| S      | 2+00N       | 5      |
| S      | 1+75N       | 5      |
| S      | 1+50N       | 5      |
| S      | 1+25N       | 5      |
| S      | 1+00N       | 5      |
| S      | 0+75N       | 5      |
| S      | 0+50N       | 5      |
| S      | 0+25N       | 5      |
| S      | 0+00        | 5      |
| S      | 0+25S       | 5      |
| S      | 0+50S       | 5      |
| S      | 0+75S       | 5      |
| S      | 1+00S       | 5      |
| S      | 1+25S       | 5      |
| S      | L 1W 1+50S  | 5      |

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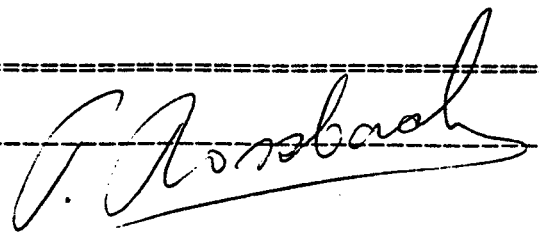
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 PROJECT: V 222  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 86685  
 INVOICE#: 7247  
 DATE ENTERED: 86-12-03  
 FILE NAME: MPH86685  
 PAGE # : 2

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| 5          | L 1W 1+75S  | 5         |
| 5          | L 1W 2+00S  | 5         |
| 5          | L 2W 0+00S  | 5         |
| 5          | 0+25S       | 5         |
| 5          | 0+50S       | 5         |
| 5          | 0+75S       | 5         |
| 5          | 1+00S       | 5         |
| 5          | 1+25S       | 5         |
| 5          | 1+50S       | 5         |
| 5          | 1+75S       | 5         |
| 5          | L 2W 2+00S  | 5         |
| 5          | L 3W 3+00N  | 5         |
| 5          | 2+75N       | 5         |
| 5          | 2+50N       | 5         |
| 5          | 2+25N       | 5         |
| 5          | 2+50N       | 5         |
| 5          | 1+75N       | 5         |
| 5          | 1+50N       | 5         |
| 5          | 1+25N       | 5         |
| 5          | 1+00N       | 5         |
| 5          | 0+75N       | 5         |
| 5          | 0+00        | 5         |
| 5          | 0+25S       | 5         |
| 5          | 0+50S       | 5         |
| 5          | 0+75S       | 5         |
| 5          | 1+00S       | 5         |
| 5          | 1+25S       | 5         |
| 5          | 1+50S       | 5         |
| 5          | 1+75S       | 5         |
| 5          | L 3W 2+00S  | 5         |
| 5          | BL 2+75E    | 5         |
| 5          | 2+50E       | 5         |
| 5          | 2+25E       | 30        |
| 5          | 1+75E       | 5         |
| 5          | 1+50E       | 5         |
| 5          | 1+25E       | 5         |
| 5          | 0+75E       | 5         |
| 5          | 0+50E       | 5         |
| 5          | 0+25E       | 5         |
| 5          | 0+25W       | 5         |

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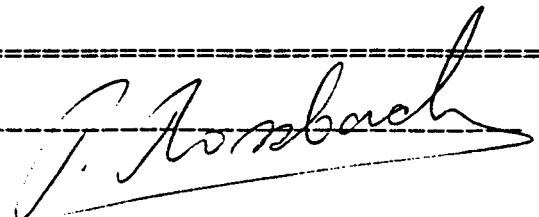
TO : MPH CONSULTING LTD.  
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 VANCOUVER B.C.  
 PROJECT: V 222  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 86685  
 INVOICE#: 7247  
 DATE ENTERED: 86-12-03  
 FILE NAME: MPH86685  
 PAGE # : 3

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| S          | BL 0+50W    | 40        |
| S          | 0+75W       | 5         |
| S          | 1+25W       | 5         |
| S          | 1+50W       | 5         |
| S          | 1+75W       | 5         |
| S          | 2+25W       | 5         |
| S          | 2+50W       | 5         |
| S          | 2+75W       | 5         |
| S          | 3+25W       | 5         |
| S          | 3+50W       | 5         |
| S          | 3+75W       | 10        |
| S          | BL 4+00W    | 5         |
| S          | L 1E 2+75N  | 5         |
| S          | 2+50N       | 5         |
| S          | 2+25N       | 5         |
| S          | 2+00N       | 5         |
| S          | 1+75N       | 5         |
| S          | 1+50N       | 190       |
| S          | 1+25N       | 50        |
| S          | 1+00N       | 5         |
| S          | 0+75N       | 5         |
| S          | 0+50N       | 5         |
| S          | 0+25N       | 5         |
| S          | 0+00        | 5         |
| S          | 0+25S       | 5         |
| S          | 0+50S       | 5         |
| S          | 0+75S       | 5         |
| S          | 1+00S       | 5         |
| S          | 1+25S       | 5         |
| S          | 1+50S       | 5         |
| S          | 1+75S       | 5         |
| S          | L 1E 2+00S  | 20        |
| S          | L 2E 3+50N  | 5         |
| S          | 3+25N       | 5         |
| S          | 3+00N       | 5         |
| S          | 2+75N       | 5         |
| S          | 2+50N       | 5         |
| S          | 2+25N       | 5         |
| S          | 2+00N       | 5         |
| S          | L 2E 1+75N  | 5         |

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**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

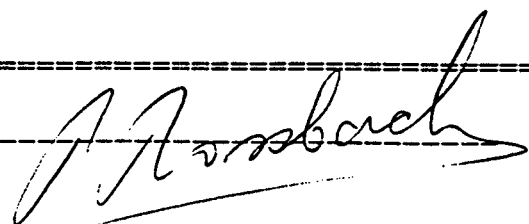
**CERTIFICATE OF ANALYSIS**

TO : MPH CONSULTING LTD.  
 301-409 GRANVILLE STREET  
 VANCOUVER B.C.  
 PROJECT: V 222  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 86685  
 INVOICE#: 7247  
 DATE ENTERED: 86-12-03  
 FILE NAME: MFH86685  
 PAGE # : 4

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
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| S          | 1+25N       | 5         |
| S          | 1+00N       | 5         |
| S          | 0+75N       | 5         |
| S          | 0+50N       | 5         |
| S          | 0+25N       | 5         |
| S          | 0+00        | 5         |
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| S          | 0+50S       | 5         |
| S          | 0+75S       | 5         |
| S          | 1+00S       | 5         |
| S          | 1+25S       | 5         |
| S          | 1+50S       | 5         |
| S          | 1+75S       | 70        |
| S          | L 2E 2+00S  | 20        |
| S          | L 3E 4+00N  | 80        |
| S          | 3+75N       | 5         |
| S          | 3+50N       | 5         |
| S          | 3+25N       | 5         |
| S          | 3+00N       | 5         |
| S          | 2+75N       | 5         |
| S          | 2+50N       | 5         |
| S          | 2+25N       | 5         |
| S          | 2+00N       | 5         |
| S          | 1+75N       | 5         |
| S          | 1+50N       | 380       |
| S          | 1+25N       | 5         |
| S          | 1+00N       | 5         |
| S          | 0+75N       | 120       |
| S          | 0+50N       | 5         |
| S          | 0+25N       | 5         |
| S          | 0+00        | 5         |
| S          | 0+25S       | 5         |
| S          | 0+50S       | 5         |
| S          | 0+75S       | 5         |
| S          | 1+00S       | 5         |
| S          | 1+25S       | 90        |
| S          | 1+50S       | 20        |
| S          | 1+75S       | 5         |
| S          | L 3W 2+00S  | 5         |

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CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
301-409 GRANVILLE STREET  
VANCOUVER B.C.

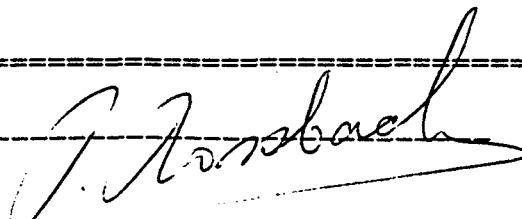
CERTIFICATE#: 86685  
INVOICE#: 7247  
DATE ENTERED: 86-12-03  
FILE NAME: MPH86685  
PAGE # : 5

PROJECT: V 222  
TYPE OF ANALYSIS: GEOCHEMICAL

| PRE<br>FIX | SAMPLE NAME | PPB<br>Au |
|------------|-------------|-----------|
| S          | L 1E 3+75S  | 5         |
| S          | L 1E 4+00S  | 5         |

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# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers  
 212 BROOKSBANK AVE., NORTH VANCOUVER,  
 BRITISH COLUMBIA, CANADA V7J-2C1  
 PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8622613

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 1-A  
 Tot. Pages: 4  
 Date : 20-JAN-87  
 Invoice # : I-8622613  
 P.O. # : NONE

Project : V222 RACK V  
 Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca %  | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na % |
|--------------------|-----------|------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|------|
| 1401               | 221 238   | 3.93 | 0.2    | < 5    | 40     | < 0.5  | < 2    | 2.05  | < 0.5  | 13     | 33     | 143    | 4.32 | 10     | 0.11 | 10     | 1.27 | 742    | < 1    | 0.33 |
| 1402               | 221 238   | 4.27 | 0.2    | < 5    | 50     | < 0.5  | < 2    | 1.77  | < 0.5  | 14     | 28     | 164    | 5.88 | 10     | 0.17 | 10     | 1.58 | 802    | < 1    | 0.33 |
| 1403               | 221 238   | 3.40 | 0.2    | 10     | 60     | < 0.5  | < 2    | 1.51  | < 0.5  | 16     | 32     | 165    | 4.63 | 10     | 0.25 | 10     | 1.23 | 671    | 40     | 0.33 |
| 1404               | 221 238   | 2.15 | 0.2    | 5      | 60     | < 0.5  | < 2    | 1.11  | < 0.5  | 11     | 39     | 98     | 3.40 | < 10   | 0.11 | 10     | 0.87 | 570    | 16     | 0.16 |
| 1405               | 221 238   | 5.39 | 0.2    | 10     | 140    | < 0.5  | < 2    | 2.72  | < 0.5  | 14     | 23     | 164    | 5.11 | 20     | 0.55 | < 10   | 1.50 | 793    | < 1    | 0.54 |
| 1406               | 221 238   | 3.13 | 0.2    | < 5    | 70     | < 0.5  | < 2    | 1.69  | < 0.5  | 13     | 30     | 143    | 4.04 | 10     | 0.15 | < 10   | 1.08 | 646    | < 1    | 0.30 |
| 1407               | 221 238   | 2.74 | 0.2    | 15     | 20     | < 0.5  | < 2    | 2.98  | < 0.5  | 21     | 23     | 128    | 5.84 | 20     | 0.11 | < 10   | 1.49 | 1140   | < 1    | 0.02 |
| 1408               | 221 238   | 2.43 | 0.2    | 5      | 70     | < 0.5  | < 2    | 3.19  | < 0.5  | 15     | 24     | 86     | 4.71 | 20     | 0.16 | < 10   | 1.17 | 991    | < 1    | 0.03 |
| 1409               | 221 238   | 2.87 | 0.2    | 20     | 50     | < 0.5  | < 2    | 2.35  | < 0.5  | 18     | 38     | 109    | 5.25 | 10     | 0.11 | 10     | 1.43 | 1125   | < 1    | 0.12 |
| 1410               | 221 238   | 2.45 | 0.2    | 10     | 90     | < 0.5  | < 2    | 0.41  | < 0.5  | 13     | 20     | 28     | 4.76 | < 10   | 0.24 | 10     | 1.16 | 714    | < 1    | 0.04 |
| 1411               | 221 238   | 1.80 | 0.2    | 10     | 50     | < 0.5  | < 2    | 2.74  | < 0.5  | 11     | 15     | 54     | 3.43 | 10     | 0.22 | < 10   | 0.90 | 738    | < 1    | 0.01 |
| 1412               | 221 238   | 1.98 | 0.2    | 10     | 40     | < 0.5  | < 2    | 3.56  | < 0.5  | 11     | 15     | 76     | 4.03 | 10     | 0.18 | < 10   | 1.08 | 923    | < 1    | 0.01 |
| 1413               | 221 238   | 1.84 | 0.2    | 10     | 50     | < 0.5  | < 2    | 2.49  | < 0.5  | 12     | 16     | 66     | 3.54 | 10     | 0.19 | < 10   | 0.97 | 744    | < 1    | 0.02 |
| 1414               | 221 238   | 2.46 | 0.2    | 10     | 50     | < 0.5  | < 2    | 2.49  | < 0.5  | 18     | 31     | 107    | 4.87 | 10     | 0.21 | < 10   | 1.43 | 925    | < 1    | 0.02 |
| 1415               | 221 238   | 2.61 | 0.2    | < 5    | 40     | < 0.5  | < 2    | 2.18  | < 0.5  | 18     | 40     | 90     | 4.79 | 10     | 0.16 | 10     | 1.74 | 1010   | < 1    | 0.02 |
| 1416               | 221 238   | 2.46 | 0.2    | 5      | 190    | < 0.5  | < 2    | 1.94  | < 0.5  | 21     | 17     | 57     | 4.59 | 10     | 0.10 | < 10   | 1.95 | 905    | < 1    | 0.10 |
| 1417               | 221 238   | 2.50 | 0.2    | 5      | 70     | < 0.5  | < 2    | 3.16  | < 0.5  | 18     | 15     | 76     | 4.53 | 10     | 0.20 | < 10   | 1.56 | 958    | < 1    | 0.02 |
| 1418               | 221 238   | 2.89 | 0.2    | 5      | 60     | < 0.5  | < 2    | 3.56  | < 0.5  | 21     | 13     | 62     | 4.88 | 20     | 0.16 | < 10   | 1.99 | 1105   | < 1    | 0.08 |
| 1419               | 221 238   | 2.13 | 0.2    | 10     | 40     | < 0.5  | < 2    | 4.09  | < 0.5  | 15     | 13     | 70     | 3.95 | 20     | 0.19 | < 10   | 1.24 | 955    | < 1    | 0.01 |
| 1420               | 221 238   | 2.69 | 0.2    | 10     | 60     | < 0.5  | < 2    | 2.62  | < 0.5  | 17     | 21     | 109    | 4.90 | 10     | 0.10 | < 10   | 1.24 | 913    | < 1    | 0.12 |
| 1421               | 221 238   | 2.37 | 0.2    | 10     | 40     | < 0.5  | < 2    | 1.90  | < 0.5  | 17     | 27     | 101    | 4.77 | 10     | 0.08 | < 10   | 1.19 | 833    | < 1    | 0.07 |
| 1422               | 221 238   | 2.84 | 0.2    | 10     | 150    | < 0.5  | < 2    | 1.65  | < 0.5  | 14     | 14     | 108    | 4.78 | 10     | 0.34 | 10     | 1.35 | 974    | < 1    | 0.12 |
| 1423               | 221 238   | 3.03 | 0.2    | 15     | 190    | < 0.5  | < 2    | 2.01  | < 0.5  | 15     | 20     | 131    | 4.44 | 10     | 0.49 | < 10   | 1.21 | 876    | < 1    | 0.19 |
| 1424               | 221 238   | 2.42 | 0.2    | 10     | 40     | < 0.5  | < 2    | 2.22  | < 0.5  | 8      | 29     | 35     | 2.68 | 10     | 0.14 | < 10   | 0.69 | 519    | < 1    | 0.22 |
| 1425               | 221 238   | 2.44 | 0.2    | 5      | 110    | < 0.5  | < 2    | 2.23  | < 0.5  | 13     | 24     | 108    | 3.76 | 10     | 0.35 | < 10   | 0.87 | 619    | < 1    | 0.23 |
| 1426               | 221 238   | 3.30 | 0.2    | 15     | 20     | < 0.5  | < 2    | 3.78  | < 0.5  | 10     | 32     | 84     | 2.25 | 20     | 0.11 | < 10   | 0.42 | 421    | < 1    | 0.31 |
| 1427               | 221 238   | 2.93 | 0.2    | 5      | 120    | < 0.5  | < 2    | 1.40  | < 0.5  | 15     | 15     | 133    | 4.78 | 10     | 0.33 | < 10   | 1.24 | 923    | < 1    | 0.19 |
| 1428               | 221 238   | 2.55 | 0.2    | 5      | 30     | < 0.5  | < 2    | 5.04  | < 0.5  | 18     | 18     | 107    | 4.71 | 20     | 0.16 | < 10   | 1.56 | 1110   | < 1    | 0.01 |
| 1429               | 221 238   | 3.11 | 0.8    | 125    | 60     | < 0.5  | 8      | 1.78  | < 0.5  | 16     | 24     | 626    | 3.74 | 10     | 0.19 | 10     | 1.00 | 456    | < 1    | 0.30 |
| 1430               | 221 238   | 4.23 | 0.2    | 5      | 300    | < 0.5  | < 2    | 2.20  | < 0.5  | 16     | 24     | 138    | 4.86 | 10     | 0.69 | 10     | 1.24 | 858    | < 1    | 0.39 |
| 1431               | 221 238   | 3.72 | 0.2    | 10     | 80     | < 0.5  | < 2    | 2.60  | < 0.5  | 14     | 37     | 96     | 4.17 | 10     | 0.21 | < 10   | 0.96 | 695    | < 1    | 0.32 |
| 1432               | 221 238   | 2.64 | 0.2    | 10     | 80     | < 0.5  | < 2    | 2.88  | < 0.5  | 14     | 17     | 97     | 3.86 | 10     | 0.32 | < 10   | 0.91 | 951    | < 1    | 0.20 |
| 1433               | 221 238   | 4.34 | 0.2    | 15     | 110    | < 0.5  | < 2    | 2.74  | < 0.5  | 16     | 13     | 116    | 4.62 | 20     | 0.19 | < 10   | 0.97 | 2870   | < 1    | 0.54 |
| 1434               | 221 238   | 3.41 | 0.2    | < 5    | 30     | < 0.5  | < 2    | 5.32  | < 0.5  | 11     | 20     | 127    | 2.83 | 20     | 0.13 | < 10   | 0.68 | 904    | < 1    | 0.36 |
| 1435               | 221 238   | 1.89 | 0.2    | 5      | 30     | < 0.5  | 2      | 13.70 | < 0.5  | 6      | 11     | 76     | 1.47 | 30     | 0.10 | < 10   | 0.36 | 1105   | < 1    | 0.21 |
| 1436               | 221 238   | 2.43 | 0.2    | 10     | 20     | < 0.5  | < 2    | 10.10 | < 0.5  | 8      | 9      | 71     | 2.07 | 30     | 0.08 | < 10   | 0.49 | 1220   | < 1    | 0.30 |
| 1437               | 221 238   | 2.52 | 0.2    | 10     | 10     | < 0.5  | < 2    | 6.47  | < 0.5  | 13     | 30     | 144    | 3.15 | 20     | 0.05 | < 10   | 0.46 | 768    | < 1    | 0.18 |
| 1438               | 221 238   | 2.91 | 0.2    | 5      | 30     | < 0.5  | < 2    | 2.64  | < 0.5  | 12     | 30     | 117    | 3.76 | 10     | 0.13 | < 10   | 0.95 | 923    | < 1    | 0.26 |
| 1439               | 221 238   | 3.23 | 0.2    | 15     | 150    | < 0.5  | < 2    | 1.62  | < 0.5  | 14     | 24     | 116    | 4.46 | 10     | 0.50 | 10     | 1.14 | 933    | < 1    | 0.27 |
| 1440               | 221 238   | 3.04 | 0.2    | 10     | 160    | < 0.5  | < 2    | 1.71  | < 0.5  | 13     | 27     | 114    | 3.82 | 10     | 0.61 | 10     | 0.93 | 619    | < 1    | 0.25 |

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CERTIFICATION :

*Hart Buchler*



# Chemex Labs Ltd.

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BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8622613

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 1-B  
Tot. Pages: 4  
Date : 20-JAN-87  
Invoice #: I-8622613  
P.O. #: NONE

Project: V222 RACK V

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %   | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|
| 1401               | 221 238   | 9      | 2110  | 2      | < 5    | 130    | 0.16   | < 10   | < 10  | 127   | < 5   | 76     |  |  |  |  |  |  |  |
| 1402               | 221 238   | 10     | 1360  | 4      | < 5    | 90     | 0.22   | < 10   | < 10  | 143   | < 5   | 70     |  |  |  |  |  |  |  |
| 1403               | 221 238   | 10     | 1600  | 8      | < 5    | 108    | 0.16   | < 10   | < 10  | 115   | < 5   | 70     |  |  |  |  |  |  |  |
| 1404               | 221 238   | 8      | 940   | 4      | < 5    | 62     | 0.14   | < 10   | < 10  | 88    | < 5   | 66     |  |  |  |  |  |  |  |
| 1405               | 221 238   | 6      | 1990  | 4      | < 5    | 173    | 0.26   | < 10   | < 10  | 153   | < 5   | 88     |  |  |  |  |  |  |  |
| 1406               | 221 238   | 8      | 1920  | 4      | < 5    | 125    | 0.16   | < 10   | < 10  | 111   | < 5   | 72     |  |  |  |  |  |  |  |
| 1407               | 221 238   | 10     | 940   | 6      | < 5    | 38     | < 0.01 | < 10   | < 10  | 170   | < 5   | 86     |  |  |  |  |  |  |  |
| 1408               | 221 238   | 14     | 860   | < 2    | < 5    | 43     | < 0.01 | < 10   | < 10  | 89    | < 5   | 76     |  |  |  |  |  |  |  |
| 1409               | 221 238   | 13     | 830   | 8      | < 5    | 57     | 0.05   | < 10   | < 10  | 139   | < 5   | 90     |  |  |  |  |  |  |  |
| 1410               | 221 238   | 11     | 640   | 2      | < 5    | 16     | 0.01   | < 10   | < 10  | 84    | < 5   | 78     |  |  |  |  |  |  |  |
| 1411               | 221 238   | 9      | 550   | < 2    | < 5    | 42     | < 0.01 | < 10   | < 10  | 39    | < 5   | 80     |  |  |  |  |  |  |  |
| 1412               | 221 238   | 7      | 690   | < 2    | < 5    | 72     | < 0.01 | < 10   | < 10  | 44    | < 5   | 36     |  |  |  |  |  |  |  |
| 1413               | 221 238   | 8      | 560   | 4      | < 5    | 47     | < 0.01 | < 10   | < 10  | 58    | < 5   | 44     |  |  |  |  |  |  |  |
| 1414               | 221 238   | 29     | 790   | 6      | < 5    | 40     | < 0.01 | < 10   | < 10  | 88    | < 5   | 58     |  |  |  |  |  |  |  |
| 1415               | 221 238   | 44     | 760   | < 2    | < 5    | 40     | 0.02   | < 10   | < 10  | 89    | < 5   | 52     |  |  |  |  |  |  |  |
| 1416               | 221 238   | 19     | 1420  | < 2    | < 5    | 116    | 0.10   | < 10   | < 10  | 96    | < 5   | 72     |  |  |  |  |  |  |  |
| 1417               | 221 238   | 13     | 1100  | 2      | < 5    | 59     | 0.05   | < 10   | < 10  | 66    | < 5   | 70     |  |  |  |  |  |  |  |
| 1418               | 221 238   | 13     | 1220  | < 2    | < 5    | 89     | 0.03   | < 10   | < 10  | 92    | < 5   | 74     |  |  |  |  |  |  |  |
| 1419               | 221 238   | 11     | 910   | < 2    | < 5    | 52     | < 0.01 | < 10   | < 10  | 48    | < 5   | 56     |  |  |  |  |  |  |  |
| 1420               | 221 238   | 10     | 890   | 2      | < 5    | 69     | 0.09   | < 10   | < 10  | 128   | < 5   | 66     |  |  |  |  |  |  |  |
| 1421               | 221 238   | 12     | 690   | 2      | < 5    | 45     | 0.08   | < 10   | < 10  | 140   | < 5   | 70     |  |  |  |  |  |  |  |
| 1422               | 221 238   | 11     | 1640  | 6      | < 5    | 57     | 0.15   | < 10   | < 10  | 128   | < 5   | 80     |  |  |  |  |  |  |  |
| 1423               | 221 238   | 7      | 1410  | 2      | < 5    | 86     | 0.18   | < 10   | < 10  | 122   | < 5   | 78     |  |  |  |  |  |  |  |
| 1424               | 221 238   | 4      | 650   | 4      | < 5    | 90     | 0.08   | < 10   | < 10  | 53    | < 5   | 56     |  |  |  |  |  |  |  |
| 1425               | 221 238   | 8      | 1280  | 2      | < 5    | 102    | 0.13   | < 10   | < 10  | 89    | < 5   | 76     |  |  |  |  |  |  |  |
| 1426               | 221 238   | 6      | 1320  | < 2    | < 5    | 131    | 0.08   | < 10   | < 10  | 45    | < 5   | 34     |  |  |  |  |  |  |  |
| 1427               | 221 238   | 9      | 1440  | < 2    | < 5    | 80     | 0.18   | < 10   | < 10  | 117   | < 5   | 74     |  |  |  |  |  |  |  |
| 1428               | 221 238   | 12     | 870   | 2      | < 5    | 68     | < 0.01 | < 10   | < 10  | 69    | < 5   | 70     |  |  |  |  |  |  |  |
| 1429               | 221 238   | 10     | 2880  | 8      | < 5    | 59     | 0.11   | < 10   | < 10  | 101   | < 5   | 62     |  |  |  |  |  |  |  |
| 1430               | 221 238   | 8      | 1430  | 2      | < 5    | 181    | 0.25   | < 10   | < 10  | 139   | < 5   | 66     |  |  |  |  |  |  |  |
| 1431               | 221 238   | 7      | 1150  | 6      | < 5    | 147    | 0.18   | < 10   | < 10  | 110   | < 5   | 56     |  |  |  |  |  |  |  |
| 1432               | 221 238   | 5      | 1440  | < 2    | < 5    | 104    | 0.14   | < 10   | < 10  | 101   | < 5   | 62     |  |  |  |  |  |  |  |
| 1433               | 221 238   | 8      | 3450  | 4      | < 5    | 223    | 0.14   | < 10   | < 10  | 88    | < 5   | 62     |  |  |  |  |  |  |  |
| 1434               | 221 238   | 5      | 2890  | 2      | < 5    | 182    | 0.13   | < 10   | < 10  | 76    | < 5   | 48     |  |  |  |  |  |  |  |
| 1435               | 221 238   | 4      | 1460  | 2      | < 5    | 146    | 0.10   | < 10   | < 10  | 41    | < 5   | 26     |  |  |  |  |  |  |  |
| 1436               | 221 238   | 5      | 2260  | < 2    | < 5    | 195    | 0.06   | < 10   | < 10  | 40    | < 5   | 30     |  |  |  |  |  |  |  |
| 1437               | 221 238   | 7      | 2300  | 4      | < 5    | 132    | 0.09   | < 10   | < 10  | 53    | < 5   | 38     |  |  |  |  |  |  |  |
| 1438               | 221 238   | 12     | 1590  | 4      | < 5    | 97     | 0.13   | < 10   | < 10  | 104   | < 5   | 60     |  |  |  |  |  |  |  |
| 1439               | 221 238   | 11     | 1390  | 2      | < 5    | 117    | 0.17   | < 10   | < 10  | 128   | < 5   | 68     |  |  |  |  |  |  |  |
| 1440               | 221 238   | 9      | 1200  | 2      | < 5    | 119    | 0.21   | < 10   | < 10  | 114   | < 5   | 62     |  |  |  |  |  |  |  |

CERTIFICATION :

*Hart Buchler*



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers  
 212 BROOKSBANK AVE., NORTH VANCOUVER,  
 BRITISH COLUMBIA, CANADA V7J-2C1  
 PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8622613

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 2-A  
 Tot. Pages: 4  
 Date : 20-JAN-87  
 Invoice # : I-8622613  
 P.O. # : NONE

Project : V222 RACK V  
 Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na % |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|------|
| 1441               | 221 238   | 7.16 | 0.2    | 15     | 630    | < 0.5  | < 2    | 3.52 | < 0.5  | 16     | 49     | 99     | 5.52 | 20     | 1.38 | < 10   | 1.42 | 681    | < 1    | 0.89 |
| 1442               | 221 238   | 3.09 | 0.2    | < 5    | 310    | < 0.5  | < 2    | 1.40 | < 0.5  | 15     | 24     | 64     | 5.00 | 10     | 0.83 | 10     | 1.15 | 565    | < 1    | 0.25 |
| 1443               | 221 238   | 3.13 | 0.2    | 10     | 90     | < 0.5  | < 2    | 2.23 | < 0.5  | 22     | 39     | 123    | 5.48 | 10     | 0.23 | 10     | 0.89 | 527    | < 1    | 0.28 |
| 1444               | 221 238   | 3.67 | 0.2    | 10     | 430    | < 0.5  | < 2    | 1.58 | < 0.5  | 15     | 39     | 62     | 4.93 | 10     | 1.01 | 10     | 1.26 | 540    | < 1    | 0.32 |
| 1445               | 221 238   | 4.82 | 0.2    | 5      | 230    | < 0.5  | < 2    | 2.45 | < 0.5  | 14     | 39     | 84     | 4.50 | 20     | 0.55 | 10     | 1.16 | 499    | < 1    | 0.54 |
| 1446               | 221 238   | 3.19 | 0.2    | 10     | 40     | < 0.5  | < 2    | 6.25 | < 0.5  | 14     | 26     | 76     | 4.23 | 20     | 0.20 | < 10   | 1.06 | 928    | < 1    | 0.08 |
| 1447               | 221 238   | 6.29 | 0.2    | 15     | 160    | < 0.5  | < 2    | 3.47 | < 0.5  | 19     | 44     | 117    | 4.86 | 20     | 0.47 | < 10   | 1.22 | 488    | < 1    | 0.67 |
| 1448               | 221 238   | 9.82 | 0.4    | 15     | 200    | < 0.5  | < 2    | 6.30 | < 0.5  | 32     | 76     | 253    | 8.12 | 40     | 0.58 | < 10   | 1.80 | 878    | < 1    | 0.93 |
| 1449               | 221 238   | 3.65 | 0.4    | 5      | 120    | < 0.5  | < 2    | 2.19 | < 0.5  | 17     | 34     | 104    | 5.25 | 10     | 0.27 | 10     | 1.37 | 667    | < 1    | 0.24 |
| 1450               | 221 238   | 2.65 | 0.6    | 10     | 50     | < 0.5  | < 2    | 1.34 | < 0.5  | 16     | 46     | 238    | 5.70 | 10     | 0.15 | 10     | 1.20 | 542    | < 1    | 0.14 |
| 1451               | 221 238   | 4.42 | 0.4    | 15     | 310    | < 0.5  | < 2    | 1.97 | < 0.5  | 15     | 36     | 95     | 4.21 | 20     | 0.84 | 10     | 1.15 | 417    | < 1    | 0.53 |
| 1452               | 221 238   | 4.52 | 0.2    | 10     | 400    | < 0.5  | < 2    | 1.70 | < 0.5  | 18     | 37     | 95     | 4.93 | 10     | 1.19 | 10     | 1.35 | 468    | < 1    | 0.50 |
| 1453               | 221 238   | 4.28 | 0.4    | 10     | 300    | < 0.5  | < 2    | 2.45 | < 0.5  | 21     | 46     | 361    | 5.08 | 20     | 0.91 | 10     | 1.09 | 383    | < 1    | 0.39 |
| 1454               | 221 238   | 4.21 | 0.2    | 10     | 470    | < 0.5  | < 2    | 1.32 | < 0.5  | 17     | 33     | 103    | 5.97 | 10     | 1.34 | 10     | 1.68 | 614    | < 1    | 0.33 |
| 1455               | 221 238   | 4.41 | 0.2    | 15     | 130    | < 0.5  | < 2    | 3.42 | < 0.5  | 15     | 53     | 89     | 3.25 | 20     | 0.45 | < 10   | 0.78 | 330    | < 1    | 0.37 |
| 1456               | 221 238   | 4.04 | 0.2    | 10     | 250    | < 0.5  | < 2    | 1.64 | < 0.5  | 16     | 32     | 90     | 4.87 | 10     | 0.72 | 10     | 1.32 | 595    | < 1    | 0.39 |
| 1457               | 221 238   | 2.21 | 0.2    | 5      | < 10   | < 0.5  | < 2    | 1.45 | < 0.5  | 20     | 21     | 36     | 3.52 | 10     | 0.03 | 10     | 1.69 | 695    | < 1    | 0.03 |
| 1458               | 221 238   | 3.47 | 0.2    | 5      | 40     | < 0.5  | < 2    | 1.50 | < 0.5  | 17     | 28     | 94     | 4.64 | 10     | 0.09 | 10     | 1.40 | 734    | < 1    | 0.31 |
| 1459               | 221 238   | 3.33 | 0.2    | 5      | 210    | < 0.5  | < 2    | 1.28 | < 0.5  | 15     | 35     | 114    | 4.51 | 10     | 0.56 | 10     | 1.21 | 449    | < 1    | 0.34 |
| 1460               | 221 238   | 3.11 | 0.2    | 10     | 270    | < 0.5  | < 2    | 1.09 | < 0.5  | 16     | 29     | 104    | 4.71 | 10     | 0.75 | 10     | 1.36 | 514    | < 1    | 0.23 |
| 1461               | 221 238   | 2.91 | 0.2    | 10     | 100    | < 0.5  | < 2    | 1.93 | < 0.5  | 12     | 53     | 82     | 4.43 | 10     | 0.29 | < 10   | 1.09 | 629    | < 1    | 0.18 |
| 1462               | 221 238   | 2.29 | 0.4    | 10     | 30     | < 0.5  | < 2    | 3.58 | < 0.5  | 15     | 40     | 129    | 4.29 | 20     | 0.10 | < 10   | 0.81 | 562    | < 1    | 0.08 |
| 1463               | 221 238   | 2.84 | 0.2    | 5      | 40     | < 0.5  | < 2    | 2.55 | < 0.5  | 15     | 31     | 81     | 4.46 | 20     | 0.11 | 10     | 1.19 | 652    | < 1    | 0.09 |
| 1464               | 221 238   | 2.80 | 0.4    | 10     | 60     | < 0.5  | < 2    | 2.31 | < 0.5  | 14     | 49     | 94     | 3.41 | 10     | 0.17 | 10     | 0.79 | 476    | < 1    | 0.17 |
| 1465               | 221 238   | 3.13 | 0.2    | 10     | 290    | < 0.5  | < 2    | 2.41 | < 0.5  | 17     | 32     | 126    | 4.85 | 10     | 0.69 | 10     | 1.35 | 698    | < 1    | 0.24 |
| 1466               | 221 238   | 3.75 | 0.4    | 5      | 280    | < 0.5  | < 2    | 2.41 | < 0.5  | 14     | 19     | 131    | 4.76 | 10     | 0.89 | 10     | 1.20 | 858    | < 1    | 0.24 |
| 1467               | 221 238   | 3.46 | 0.4    | 10     | 190    | < 0.5  | < 2    | 1.72 | < 0.5  | 16     | 11     | 140    | 5.82 | 10     | 0.92 | 10     | 1.55 | 1145   | < 1    | 0.19 |
| 1468               | 221 238   | 2.80 | 0.4    | 10     | 40     | < 0.5  | < 2    | 2.41 | < 0.5  | 13     | 37     | 133    | 3.75 | 10     | 0.16 | 10     | 0.92 | 754    | < 1    | 0.17 |
| 1469               | 221 238   | 2.61 | 0.4    | 5      | 70     | < 0.5  | < 2    | 1.39 | < 0.5  | 13     | 26     | 119    | 4.78 | 10     | 0.29 | 10     | 1.27 | 1035   | < 1    | 0.13 |
| 1470               | 221 238   | 3.13 | 0.2    | 10     | 30     | < 0.5  | < 2    | 2.09 | < 0.5  | 15     | 24     | 112    | 5.13 | 10     | 0.14 | 10     | 1.37 | 1160   | < 1    | 0.14 |
| 1471               | 221 238   | 3.10 | 0.4    | 10     | 30     | < 0.5  | < 2    | 3.44 | < 0.5  | 16     | 19     | 135    | 5.58 | 20     | 0.15 | < 10   | 1.43 | 1230   | < 1    | 0.03 |
| 1472               | 221 238   | 3.79 | 0.4    | 5      | 150    | < 0.5  | < 2    | 2.62 | < 0.5  | 14     | 34     | 137    | 4.80 | 20     | 0.72 | 10     | 1.16 | 990    | < 1    | 0.25 |
| 1473               | 221 238   | 4.21 | 0.4    | 15     | 330    | < 0.5  | < 2    | 2.24 | < 0.5  | 11     | 38     | 108    | 3.81 | 10     | 1.00 | 10     | 0.95 | 676    | < 1    | 0.40 |
| 1474               | 221 238   | 2.38 | 0.2    | 15     | 130    | < 0.5  | < 2    | 0.94 | < 0.5  | 10     | 21     | 84     | 4.05 | 10     | 0.46 | 10     | 1.04 | 675    | < 1    | 0.14 |
| 1475               | 221 238   | 2.56 | 0.2    | 10     | 30     | < 0.5  | < 2    | 2.18 | < 0.5  | 4      | 68     | 20     | 1.66 | 10     | 0.18 | 10     | 0.43 | 322    | < 1    | 0.29 |
| 1476               | 221 238   | 2.75 | 0.4    | 10     | 20     | < 0.5  | < 2    | 2.41 | < 0.5  | 5      | 62     | 45     | 1.30 | 10     | 0.17 | < 10   | 0.28 | 244    | < 1    | 0.23 |
| 1477               | 221 238   | 3.58 | 0.4    | 20     | 140    | < 0.5  | < 2    | 2.24 | < 0.5  | 15     | 36     | 134    | 4.44 | 10     | 0.53 | 10     | 1.11 | 857    | < 1    | 0.22 |
| 1478               | 221 238   | 4.04 | 0.2    | 10     | 300    | < 0.5  | < 2    | 1.93 | < 0.5  | 13     | 31     | 82     | 4.74 | 10     | 1.32 | 10     | 1.27 | 1065   | < 1    | 0.35 |
| 1479               | 221 238   | 4.03 | 0.4    | 5      | 230    | < 0.5  | < 2    | 2.16 | < 0.5  | 15     | 27     | 109    | 5.13 | 10     | 1.08 | 10     | 1.26 | 1100   | < 1    | 0.33 |
| 1480               | 221 238   | 4.09 | 0.4    | 10     | 120    | < 0.5  | < 2    | 2.45 | < 0.5  | 15     | 30     | 162    | 4.76 | 20     | 0.82 | 10     | 1.10 | 953    | < 1    | 0.43 |

CERTIFICATION : Hart Buchler





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8622613

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 2-B

Tot. Pages: 4

Date : 20-JAN-87

Invoice # : I-8622613

P.O. # : NONE

Project : V222 RACK V

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|
| 1441               | 221 238   | 9      | 1170  | 4      | < 5    | 365    | 0.37 | < 10   | < 10  | 174   | < 5   | 88     |  |  |  |  |  |  |
| 1442               | 221 238   | 5      | 1350  | 6      | < 5    | 106    | 0.30 | < 10   | < 10  | 113   | < 5   | 74     |  |  |  |  |  |  |
| 1443               | 221 238   | 8      | 1210  | 6      | < 5    | 177    | 0.24 | < 10   | < 10  | 157   | < 5   | 98     |  |  |  |  |  |  |
| 1444               | 221 238   | 10     | 1290  | 2      | < 5    | 132    | 0.31 | < 10   | < 10  | 143   | < 5   | 70     |  |  |  |  |  |  |
| 1445               | 221 238   | 39     | 820   | 2      | < 5    | 194    | 0.22 | < 10   | < 10  | 143   | < 5   | 68     |  |  |  |  |  |  |
| 1446               | 221 238   | 8      | 940   | 6      | < 5    | 98     | 0.13 | < 10   | < 10  | 90    | < 5   | 82     |  |  |  |  |  |  |
| 1447               | 221 238   | 10     | 1380  | 6      | < 5    | 260    | 0.22 | < 10   | < 10  | 152   | < 5   | 78     |  |  |  |  |  |  |
| 1448               | 221 238   | 18     | 2080  | 12     | < 5    | 386    | 0.25 | < 10   | < 10  | 218   | < 5   | 118    |  |  |  |  |  |  |
| 1449               | 221 238   | 11     | 850   | 6      | < 5    | 88     | 0.20 | < 10   | < 10  | 160   | < 5   | 74     |  |  |  |  |  |  |
| 1450               | 221 238   | 10     | 830   | 6      | < 5    | 63     | 0.15 | < 10   | < 10  | 115   | < 5   | 80     |  |  |  |  |  |  |
| 1451               | 221 238   | 11     | 980   | 4      | < 5    | 195    | 0.23 | < 10   | < 10  | 155   | < 5   | 72     |  |  |  |  |  |  |
| 1452               | 221 238   | 13     | 980   | 6      | < 5    | 171    | 0.26 | < 10   | < 10  | 174   | < 5   | 82     |  |  |  |  |  |  |
| 1453               | 221 238   | 14     | 920   | 2      | < 5    | 144    | 0.23 | < 10   | < 10  | 135   | < 5   | 74     |  |  |  |  |  |  |
| 1454               | 221 238   | 14     | 1280  | 2      | < 5    | 86     | 0.28 | < 10   | < 10  | 178   | < 5   | 92     |  |  |  |  |  |  |
| 1455               | 221 238   | 11     | 1070  | < 2    | < 5    | 123    | 0.18 | < 10   | < 10  | 108   | < 5   | 54     |  |  |  |  |  |  |
| 1456               | 221 238   | 11     | 1040  | 6      | < 5    | 140    | 0.24 | < 10   | < 10  | 159   | < 5   | 74     |  |  |  |  |  |  |
| 1457               | 221 238   | 13     | 1430  | < 2    | < 5    | 64     | 0.10 | < 10   | < 10  | 49    | < 5   | 60     |  |  |  |  |  |  |
| 1458               | 221 238   | 10     | 1110  | 2      | < 5    | 117    | 0.17 | < 10   | < 10  | 151   | < 5   | 70     |  |  |  |  |  |  |
| 1459               | 221 238   | 12     | 1040  | 2      | < 5    | 113    | 0.16 | < 10   | < 10  | 144   | < 5   | 70     |  |  |  |  |  |  |
| 1460               | 221 238   | 10     | 950   | 2      | < 5    | 75     | 0.21 | < 10   | < 10  | 160   | < 5   | 66     |  |  |  |  |  |  |
| 1461               | 221 238   | 9      | 930   | 6      | < 5    | 99     | 0.27 | < 10   | < 10  | 107   | < 5   | 58     |  |  |  |  |  |  |
| 1462               | 221 238   | 9      | 810   | 4      | < 5    | 75     | 0.20 | < 10   | < 10  | 101   | < 5   | 40     |  |  |  |  |  |  |
| 1463               | 221 238   | 9      | 1020  | 2      | < 5    | 51     | 0.25 | < 10   | < 10  | 145   | < 5   | 52     |  |  |  |  |  |  |
| 1464               | 221 238   | 9      | 860   | 2      | < 5    | 107    | 0.21 | < 10   | < 10  | 91    | < 5   | 34     |  |  |  |  |  |  |
| 1465               | 221 238   | 11     | 1000  | 4      | < 5    | 98     | 0.29 | < 10   | < 10  | 158   | < 5   | 56     |  |  |  |  |  |  |
| 1466               | 221 238   | 5      | 1720  | 4      | < 5    | 141    | 0.34 | < 10   | < 10  | 138   | < 5   | 62     |  |  |  |  |  |  |
| 1467               | 221 238   | 4      | 3800  | 8      | < 5    | 88     | 0.37 | < 10   | < 10  | 157   | < 5   | 102    |  |  |  |  |  |  |
| 1468               | 221 238   | 6      | 1610  | 2      | < 5    | 96     | 0.17 | < 10   | < 10  | 88    | < 5   | 82     |  |  |  |  |  |  |
| 1469               | 221 238   | 6      | 2060  | 4      | < 5    | 56     | 0.21 | < 10   | < 10  | 130   | < 5   | 76     |  |  |  |  |  |  |
| 1470               | 221 238   | 9      | 1270  | 8      | < 5    | 72     | 0.18 | < 10   | < 10  | 128   | < 5   | 84     |  |  |  |  |  |  |
| 1471               | 221 238   | 6      | 2530  | 10     | < 5    | 37     | 0.36 | < 10   | < 10  | 138   | < 5   | 96     |  |  |  |  |  |  |
| 1472               | 221 238   | 6      | 3000  | 6      | < 5    | 148    | 0.33 | < 10   | < 10  | 126   | < 5   | 88     |  |  |  |  |  |  |
| 1473               | 221 238   | 6      | 1470  | 4      | < 5    | 161    | 0.29 | < 10   | < 10  | 104   | < 5   | 68     |  |  |  |  |  |  |
| 1474               | 221 238   | 5      | 1130  | 2      | < 5    | 57     | 0.17 | < 10   | < 10  | 110   | < 5   | 68     |  |  |  |  |  |  |
| 1475               | 221 238   | 3      | 1360  | 2      | < 5    | 73     | 0.12 | < 10   | < 10  | 34    | < 5   | 32     |  |  |  |  |  |  |
| 1476               | 221 238   | 3      | 760   | 2      | < 5    | 92     | 0.13 | < 10   | < 10  | 28    | < 5   | 30     |  |  |  |  |  |  |
| 1477               | 221 238   | 6      | 2020  | 8      | < 5    | 106    | 0.28 | < 10   | < 10  | 121   | < 5   | 76     |  |  |  |  |  |  |
| 1478               | 221 238   | 6      | 2030  | 4      | < 5    | 151    | 0.31 | < 10   | < 10  | 141   | < 5   | 96     |  |  |  |  |  |  |
| 1479               | 221 238   | 7      | 2190  | 4      | < 5    | 164    | 0.27 | < 10   | < 10  | 134   | < 5   | 82     |  |  |  |  |  |  |
| 1480               | 221 238   | 6      | 2310  | 6      | < 5    | 163    | 0.23 | < 10   | < 10  | 116   | < 5   | 80     |  |  |  |  |  |  |

CERTIFICATION :

*Hart/Buchler*



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## CERTIFICATE OF ANALYSIS A8622613

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 3-A  
 Tot. Pages: 4  
 Date : 20-JAN-87  
 Invoice #: I-8622613  
 P.O. # : NONE

Project : V122 RACK V  
 Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na % |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|------|
| 1481               | 221 238   | 2.28 | < 0.2  | 5      | 20     | < 0.5  | < 2    | 3.20 | < 0.5  | 10     | 40     | 131    | 3.16 | < 10   | 0.14 | < 10   | 0.59 | 616    | < 1    | 0.19 |
| 1482               | 221 238   | 3.55 | < 0.2  | 5      | 60     | < 0.5  | < 2    | 1.90 | < 0.5  | 13     | 19     | 114    | 4.93 | < 10   | 0.42 | < 10   | 1.29 | 991    | < 1    | 0.26 |
| 1483               | 221 238   | 2.92 | < 0.2  | < 5    | 70     | < 0.5  | < 2    | 2.75 | < 0.5  | 11     | 32     | 111    | 3.19 | < 10   | 0.59 | < 10   | 0.74 | 566    | < 1    | 0.30 |
| 1484               | 221 238   | 3.45 | < 0.2  | 15     | 120    | < 0.5  | < 2    | 1.88 | < 0.5  | 15     | 34     | 112    | 3.92 | < 10   | 0.26 | 10     | 0.95 | 641    | < 1    | 0.37 |
| 1485               | 221 238   | 2.93 | < 0.2  | 10     | 60     | < 0.5  | < 2    | 1.67 | < 0.5  | 15     | 44     | 118    | 3.96 | < 10   | 0.15 | 10     | 0.98 | 652    | < 1    | 0.29 |
| 1486               | 221 238   | 4.80 | < 0.2  | 5      | 520    | < 0.5  | < 2    | 1.87 | < 0.5  | 16     | 31     | 105    | 5.34 | < 10   | 1.00 | 10     | 1.35 | 768    | < 1    | 0.48 |
| 1487               | 221 238   | 2.93 | < 0.2  | 5      | 130    | < 0.5  | < 2    | 1.31 | < 0.5  | 16     | 47     | 124    | 5.27 | < 10   | 0.36 | 10     | 1.31 | 671    | < 1    | 0.14 |
| 1488               | 221 238   | 3.82 | < 0.2  | < 5    | 240    | < 0.5  | < 2    | 1.51 | < 0.5  | 12     | 30     | 93     | 4.66 | < 10   | 0.46 | 10     | 1.24 | 650    | < 1    | 0.33 |
| 1489               | 221 238   | 1.97 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 3.53 | < 0.5  | 7      | 73     | 119    | 3.20 | < 10   | 0.05 | < 10   | 0.48 | 410    | < 1    | 0.15 |
| 1490               | 221 238   | 3.82 | < 0.2  | 10     | 210    | < 0.5  | < 2    | 2.09 | < 0.5  | 15     | 44     | 70     | 4.28 | < 10   | 0.30 | 10     | 1.10 | 719    | < 1    | 0.36 |
| 1491               | 221 238   | 3.90 | < 0.2  | 10     | 340    | < 0.5  | < 2    | 1.66 | < 0.5  | 15     | 45     | 96     | 4.65 | < 10   | 0.64 | 10     | 1.29 | 679    | < 1    | 0.39 |
| 1492               | 221 238   | 4.54 | < 0.2  | 15     | 680    | < 0.5  | < 2    | 1.50 | < 0.5  | 18     | 73     | 76     | 4.99 | < 10   | 1.45 | 10     | 1.44 | 736    | < 1    | 0.44 |
| 1493               | 221 238   | 2.65 | < 0.2  | 15     | 200    | < 0.5  | < 2    | 1.43 | < 0.5  | 13     | 116    | 66     | 2.58 | < 10   | 0.38 | 10     | 0.70 | 343    | < 1    | 0.28 |
| 1494               | 221 238   | 4.07 | < 0.2  | 10     | 150    | < 0.5  | < 2    | 2.01 | < 0.5  | 16     | 90     | 99     | 3.27 | < 10   | 0.33 | 10     | 0.84 | 325    | < 1    | 0.55 |
| 1495               | 221 238   | 1.51 | < 0.2  | 20     | 10     | < 0.5  | < 2    | 1.79 | < 0.5  | 15     | 106    | 81     | 1.65 | < 10   | 0.06 | < 10   | 0.31 | 244    | < 1    | 0.04 |
| 1496               | 221 238   | 3.09 | < 0.2  | 15     | 150    | < 0.5  | < 2    | 1.48 | < 0.5  | 20     | 153    | 100    | 3.51 | < 10   | 0.31 | 10     | 0.88 | 406    | < 1    | 0.35 |
| 1497               | 221 238   | 2.93 | < 0.2  | 15     | 310    | < 0.5  | < 2    | 1.06 | < 0.5  | 16     | 108    | 78     | 3.81 | < 10   | 0.49 | 10     | 1.12 | 710    | < 1    | 0.28 |
| 1498               | 221 238   | 1.34 | < 0.2  | 5      | 20     | < 0.5  | < 2    | 9.40 | < 0.5  | 17     | 43     | 239    | 4.94 | < 10   | 0.07 | < 10   | 0.55 | 667    | < 1    | 0.04 |
| 1499               | 221 238   | 3.88 | < 0.2  | 15     | 690    | < 0.5  | < 2    | 1.49 | < 0.5  | 16     | 116    | 75     | 3.74 | < 10   | 1.11 | 10     | 1.18 | 508    | < 1    | 0.43 |
| 1500               | 221 238   | 3.87 | < 0.2  | 15     | 300    | < 0.5  | < 2    | 1.88 | < 0.5  | 14     | 58     | 105    | 3.87 | < 10   | 0.71 | 10     | 1.06 | 573    | < 1    | 0.47 |
| 4201               | 221 238   | 1.51 | < 0.4  | 5      | 20     | < 0.5  | < 2    | 3.67 | < 0.5  | 14     | 66     | 145    | 3.83 | < 10   | 0.08 | < 10   | 0.47 | 412    | < 1    | 0.09 |
| 4202               | 221 238   | 2.96 | < 0.2  | 5      | 250    | < 0.5  | < 2    | 1.14 | < 0.5  | 15     | 53     | 93     | 4.75 | < 10   | 0.48 | 10     | 1.34 | 845    | < 1    | 0.20 |
| 4203               | 221 238   | 3.95 | < 0.2  | 5      | 640    | < 0.5  | < 2    | 1.33 | < 0.5  | 15     | 42     | 100    | 5.42 | < 10   | 1.42 | 10     | 1.50 | 908    | < 1    | 0.30 |
| 4204               | 221 238   | 2.50 | < 0.2  | 5      | 80     | < 0.5  | < 2    | 2.61 | < 0.5  | 15     | 65     | 274    | 3.30 | < 10   | 0.22 | < 10   | 0.49 | 389    | < 1    | 0.25 |
| 4205               | 221 238   | 4.03 | < 0.2  | 15     | 700    | < 0.5  | < 2    | 1.76 | < 0.5  | 18     | 29     | 203    | 5.41 | < 10   | 1.38 | 10     | 1.54 | 1150   | < 1    | 0.33 |
| 4206               | 221 238   | 4.80 | < 0.2  | 5      | 660    | < 0.5  | < 2    | 2.12 | < 0.5  | 19     | 36     | 205    | 5.44 | < 10   | 1.54 | 10     | 1.47 | 950    | < 1    | 0.39 |
| 15332              | 221 238   | 2.48 | < 0.2  | 5      | 140    | < 0.5  | < 2    | 1.03 | < 0.5  | 20     | 21     | 53     | 4.93 | < 10   | 0.11 | 10     | 2.02 | 940    | < 1    | 0.08 |
| 15333              | 221 238   | 2.98 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.50 | < 0.5  | 17     | 19     | 77     | 5.36 | < 10   | 0.22 | 10     | 1.79 | 1090   | < 1    | 0.01 |
| 15334              | 221 238   | 2.57 | < 0.2  | 5      | 50     | < 0.5  | < 2    | 1.01 | < 0.5  | 15     | 23     | 58     | 5.39 | < 10   | 0.17 | 10     | 1.31 | 927    | < 1    | 0.02 |
| 15335              | 221 238   | 2.58 | < 0.2  | 10     | 40     | < 0.5  | < 2    | 3.58 | < 0.5  | 18     | 28     | 112    | 5.25 | < 10   | 0.17 | < 10   | 1.31 | 1025   | < 1    | 0.02 |
| 15336              | 221 238   | 3.09 | < 0.2  | 5      | 90     | < 0.5  | < 2    | 1.42 | < 0.5  | 15     | 32     | 107    | 5.10 | < 10   | 0.09 | 10     | 1.33 | 942    | < 1    | 0.19 |
| 15337              | 221 238   | 3.25 | < 0.2  | 5      | 120    | < 0.5  | < 2    | 1.79 | < 0.5  | 14     | 23     | 114    | 4.63 | < 10   | 0.18 | 10     | 1.23 | 1035   | < 1    | 0.27 |
| 15338              | 221 238   | 2.96 | < 0.2  | 10     | 60     | < 0.5  | < 2    | 1.24 | < 0.5  | 15     | 21     | 119    | 5.51 | < 10   | 0.08 | 10     | 1.65 | 1405   | < 1    | 0.08 |
| 15339              | 221 238   | 2.53 | < 0.2  | 10     | 30     | < 0.5  | < 2    | 2.74 | < 0.5  | 15     | 15     | 112    | 5.32 | < 10   | 0.16 | < 10   | 1.35 | 1255   | < 1    | 0.05 |
| 15340              | 221 238   | 2.63 | < 0.2  | < 5    | 90     | < 0.5  | < 2    | 1.17 | < 0.5  | 13     | 17     | 119    | 5.29 | < 10   | 0.68 | 10     | 1.36 | 958    | < 1    | 0.10 |
| 15341              | 221 238   | 2.53 | < 0.2  | 10     | 30     | < 0.5  | < 2    | 1.39 | < 0.5  | 14     | 39     | 146    | 5.08 | < 10   | 0.18 | < 10   | 1.36 | 982    | < 1    | 0.07 |
| 15342              | 221 238   | 2.57 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 2.32 | < 0.5  | 13     | 46     | 122    | 4.19 | < 10   | 0.19 | < 10   | 1.03 | 991    | < 1    | 0.18 |
| 15343              | 221 238   | 1.36 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 3.84 | < 0.5  | 27     | 83     | 759    | 3.82 | < 10   | 0.03 | < 10   | 0.28 | 488    | < 1    | 0.05 |
| 15344              | 221 238   | 1.39 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 1.29 | < 0.5  | 8      | 71     | 6      | 2.07 | < 10   | 0.06 | 10     | 0.69 | 401    | < 1    | 0.06 |
| 15345              | 221 238   | 3.29 | < 0.2  | 5      | 120    | < 0.5  | < 2    | 2.47 | < 0.5  | 11     | 55     | 89     | 3.96 | < 10   | 0.49 | < 10   | 0.98 | 274    | < 1    | 0.32 |

CERTIFICATION :

*Hart Buchler*



# Chemex Labs Ltd.

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 PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8622613

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 3-B  
 Tot. Pages: 4  
 Date : 20-JAN-67  
 Invoice # : I-8622613  
 P.O. # : NONE

Project : V222 RACK V  
 Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %   | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--|--|--|--|--|--|
| 1481               | 221 238   | 4      | 3750  | < 2    | < 5    | 104    | 0.11   | < 10   | < 10  | 52    | < 5   | 60     |  |  |  |  |  |  |
| 1482               | 221 238   | 4      | 2310  | < 2    | < 5    | 111    | 0.21   | < 10   | < 10  | 126   | < 5   | 78     |  |  |  |  |  |  |
| 1483               | 221 238   | 5      | 2380  | 10     | < 5    | 137    | 0.16   | < 10   | < 10  | 74    | < 5   | 58     |  |  |  |  |  |  |
| 1484               | 221 238   | 8      | 780   | < 2    | < 5    | 160    | 0.14   | < 10   | < 10  | 93    | < 5   | 64     |  |  |  |  |  |  |
| 1485               | 221 238   | 10     | 890   | < 2    | < 5    | 114    | 0.14   | < 10   | < 10  | 113   | 5     | 64     |  |  |  |  |  |  |
| 1486               | 221 238   | 10     | 670   | < 2    | < 5    | 179    | 0.26   | < 10   | < 10  | 144   | 5     | 80     |  |  |  |  |  |  |
| 1487               | 221 238   | 7      | 760   | < 2    | < 5    | 52     | 0.21   | < 10   | < 10  | 161   | 5     | 88     |  |  |  |  |  |  |
| 1488               | 221 238   | 5      | 620   | < 2    | < 5    | 122    | 0.19   | < 10   | < 10  | 113   | < 5   | 76     |  |  |  |  |  |  |
| 1489               | 221 238   | 7      | 490   | < 2    | < 5    | 103    | 0.09   | < 10   | < 10  | 49    | < 5   | 64     |  |  |  |  |  |  |
| 1490               | 221 238   | 8      | 830   | < 2    | < 5    | 157    | 0.23   | < 10   | < 10  | 123   | 5     | 66     |  |  |  |  |  |  |
| 1491               | 221 238   | 11     | 830   | < 2    | < 5    | 146    | 0.18   | < 10   | < 10  | 162   | < 5   | 72     |  |  |  |  |  |  |
| 1492               | 221 238   | 28     | 780   | < 2    | < 5    | 172    | 0.24   | < 10   | < 10  | 176   | 5     | 72     |  |  |  |  |  |  |
| 1493               | 221 238   | 20     | 590   | < 2    | < 5    | 106    | 0.12   | < 10   | < 10  | 102   | < 5   | 72     |  |  |  |  |  |  |
| 1494               | 221 238   | 26     | 850   | < 2    | < 5    | 121    | 0.11   | < 10   | < 10  | 116   | < 5   | 48     |  |  |  |  |  |  |
| 1495               | 221 238   | 28     | 690   | < 2    | < 5    | 50     | 0.10   | < 10   | < 10  | 35    | < 5   | 38     |  |  |  |  |  |  |
| 1496               | 221 238   | 37     | 780   | 4      | < 5    | 88     | 0.14   | < 10   | < 10  | 127   | < 5   | 50     |  |  |  |  |  |  |
| 1497               | 221 238   | 19     | 660   | < 2    | < 5    | 87     | 0.18   | < 10   | < 10  | 136   | < 5   | 58     |  |  |  |  |  |  |
| 1498               | 221 238   | 9      | 5510  | 6      | < 5    | 154    | 0.08   | < 10   | < 10  | 44    | 10    | 70     |  |  |  |  |  |  |
| 1499               | 221 238   | 29     | 730   | < 2    | < 5    | 135    | 0.22   | < 10   | < 10  | 151   | < 5   | 52     |  |  |  |  |  |  |
| 1500               | 221 238   | 15     | 890   | < 2    | < 5    | 129    | 0.23   | < 10   | < 10  | 132   | < 5   | 62     |  |  |  |  |  |  |
| 4201               | 221 238   | 10     | 1940  | < 2    | < 5    | 63     | 0.08   | < 10   | < 10  | 50    | < 5   | 112    |  |  |  |  |  |  |
| 4202               | 221 238   | 13     | 880   | < 2    | < 5    | 65     | 0.18   | < 10   | < 10  | 149   | 5     | 80     |  |  |  |  |  |  |
| 4203               | 221 238   | 10     | 790   | < 2    | < 5    | 120    | 0.33   | < 10   | < 10  | 164   | 5     | 92     |  |  |  |  |  |  |
| 4204               | 221 238   | 9      | 1220  | < 2    | < 5    | 148    | 0.12   | < 10   | < 10  | 61    | 5     | 70     |  |  |  |  |  |  |
| 4205               | 221 238   | 8      | 2180  | < 2    | < 5    | 131    | 0.39   | < 10   | < 10  | 188   | 5     | 86     |  |  |  |  |  |  |
| 4206               | 221 238   | 8      | 1690  | < 2    | < 5    | 205    | 0.36   | < 10   | < 10  | 179   | < 5   | 78     |  |  |  |  |  |  |
| 15332              | 221 238   | 19     | 1510  | < 2    | < 5    | 75     | 0.12   | < 10   | < 10  | 98    | < 5   | 80     |  |  |  |  |  |  |
| 15333              | 221 238   | 13     | 1790  | < 2    | < 5    | 8      | < 0.01 | < 10   | < 10  | 59    | < 5   | 84     |  |  |  |  |  |  |
| 15334              | 221 238   | 12     | 830   | < 2    | < 5    | 16     | < 0.01 | < 10   | < 10  | 109   | 5     | 82     |  |  |  |  |  |  |
| 15335              | 221 238   | 12     | 910   | < 2    | < 5    | 44     | < 0.01 | < 10   | < 10  | 101   | 5     | 90     |  |  |  |  |  |  |
| 15336              | 221 238   | 8      | 1380  | < 2    | < 5    | 87     | 0.11   | < 10   | < 10  | 110   | 5     | 80     |  |  |  |  |  |  |
| 15337              | 221 238   | 6      | 1730  | < 2    | < 5    | 133    | 0.20   | < 10   | < 10  | 129   | < 5   | 78     |  |  |  |  |  |  |
| 15338              | 221 238   | 7      | 2070  | < 2    | < 5    | 43     | 0.18   | < 10   | < 10  | 133   | 5     | 90     |  |  |  |  |  |  |
| 15339              | 221 238   | 7      | 2070  | < 2    | < 5    | 83     | 0.19   | < 10   | < 10  | 120   | 5     | 90     |  |  |  |  |  |  |
| 15340              | 221 238   | 6      | 2160  | < 2    | < 5    | 49     | 0.28   | < 10   | < 10  | 145   | 5     | 88     |  |  |  |  |  |  |
| 15341              | 221 238   | 6      | 2200  | < 2    | < 5    | 42     | 0.22   | < 10   | < 10  | 140   | 5     | 96     |  |  |  |  |  |  |
| 15342              | 221 238   | 7      | 1390  | < 2    | < 5    | 79     | 0.17   | < 10   | < 10  | 104   | < 5   | 64     |  |  |  |  |  |  |
| 15343              | 221 238   | 9      | 1550  | < 2    | < 5    | 83     | 0.14   | < 10   | < 10  | 36    | < 5   | 46     |  |  |  |  |  |  |
| 15344              | 221 238   | 8      | 630   | < 2    | < 5    | 46     | 0.08   | < 10   | < 10  | 37    | < 5   | 30     |  |  |  |  |  |  |
| 15345              | 221 238   | 6      | 1640  | 2      | < 5    | 117    | 0.26   | < 10   | < 10  | 100   | < 5   | 60     |  |  |  |  |  |  |

CERTIFICATION :

*Hart/Buchler*



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## CERTIFICATE OF ANALYSIS

TO : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

CERT. # : A8620320-001-A  
INVOICE # : I8620320  
DATE : 24-NOV-86  
P.O. # : NONE  
V222

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :  
ATTN: P. ROSSBACHER

| Sample description | Al   | Ag   | As   | Ba  | Be   | Bi  | Ca   | Cd   | Co  | Cr  | Cu   | Fe    | Ga  | K     | La  | Hg   | Mn   | Mo  | Na    | Ni  | P     | Pb  | Sb  | Sr  | Ti    | Tl  | U   | V   | W   | Zn  |    |    |
|--------------------|------|------|------|-----|------|-----|------|------|-----|-----|------|-------|-----|-------|-----|------|------|-----|-------|-----|-------|-----|-----|-----|-------|-----|-----|-----|-----|-----|----|----|
|                    | Z    | ppm  | ppm  | ppm | ppm  | ppm | Z    | ppm  | ppm | ppm | ppm  | Z     | ppm | Z     | ppm | Z    | ppm  | ppm | Z     | ppm | ppm   | ppm | ppm | ppm | Z     | ppm | ppm | ppm | ppm | ppm |    |    |
| 3421               | 1.71 | <0.2 | <5   | 20  | <0.5 | <2  | 2.12 | <0.5 | 15  | 65  | 279  | 2.95  | 10  | 0.09  | 10  | 0.55 | 425  | 5   | 0.05  | 10  | 1320  | <2  | <5  | 45  | 0.26  | <10 | <10 | 71  | 15  | 52  | -- | -- |
| 3422               | 3.84 | <0.2 | <5   | 260 | <0.5 | <2  | 1.47 | 0.5  | 13  | 61  | 74   | 5.67  | 10  | 0.77  | 10  | 1.43 | 1068 | <1  | 0.26  | 9   | 910   | 6   | <5  | 79  | 0.46  | <10 | <10 | 172 | 5   | 118 | -- | -- |
| 3423               | 2.77 | <0.2 | 5    | 140 | <0.5 | <2  | 0.83 | <0.5 | 16  | 57  | 139  | 5.53  | 10  | 0.43  | 10  | 1.29 | 891  | 1   | 0.09  | 13  | 1030  | 10  | <5  | 24  | 0.38  | <10 | <10 | 182 | <5  | 92  | -- | -- |
| 3424               | 3.25 | <0.2 | 10   | 10  | <0.5 | <2  | 4.93 | <0.5 | 14  | 125 | 173  | 4.07  | 20  | 0.05  | <10 | 0.21 | 499  | 3   | 0.02  | 12  | 710   | 10  | <5  | 12  | 0.21  | <10 | <10 | 79  | <5  | 82  | -- | -- |
| 3425               | 2.80 | 0.2  | <5   | <10 | <0.5 | <2  | 3.57 | <0.5 | 44  | 114 | 685  | 6.48  | 10  | 0.01  | <10 | 0.19 | 430  | 3   | <0.01 | 54  | 630   | 10  | <5  | 12  | 0.15  | <10 | <10 | 53  | <5  | 28  | -- | -- |
| 3426               | 1.89 | 0.2  | 5    | 10  | <0.5 | <2  | 1.95 | <0.5 | 62  | 125 | 1977 | 5.31  | 10  | 0.04  | <10 | 0.73 | 283  | 2   | 0.04  | 33  | 710   | 10  | <5  | <1  | 0.23  | <10 | <10 | 70  | <5  | 44  | -- | -- |
| 3427               | 1.43 | 0.2  | <5   | 10  | <0.5 | <2  | 1.17 | <0.5 | 58  | 116 | 1346 | 4.87  | <10 | 0.06  | <10 | 0.77 | 289  | 1   | 0.06  | 33  | 810   | 8   | <5  | 1   | 0.23  | <10 | <10 | 76  | <5  | 38  | -- | -- |
| 3428               | 1.21 | 8.4  | 130  | 10  | <0.5 | <2  | 0.06 | 4.0  | 143 | 111 | 7391 | 14.15 | <10 | 0.04  | <10 | 0.61 | 299  | 3   | <0.01 | 47  | 100   | 34  | <5  | 1   | <0.01 | <10 | <10 | 52  | <5  | 288 | -- | -- |
| 3429               | 1.47 | 1.0  | 80   | 70  | <0.5 | <2  | 0.41 | 1.0  | 22  | 43  | 269  | 5.59  | <10 | 0.35  | 10  | 0.40 | 397  | 5   | 0.01  | 29  | 1180  | 18  | <5  | 1   | 0.13  | <10 | <10 | 76  | <5  | 114 | -- | -- |
| 3430               | 3.24 | 0.6  | 25   | 30  | <0.5 | <2  | 2.25 | <0.5 | 11  | 58  | 636  | 11.07 | 10  | 0.09  | 20  | 1.77 | 1460 | 7   | 0.03  | 34  | 4640  | 16  | <5  | 50  | 0.15  | <10 | <10 | 219 | <5  | 220 | -- | -- |
| 3431               | 1.90 | 1.4  | 145  | 70  | <0.5 | <2  | 2.44 | <0.5 | 22  | 46  | 1323 | 9.61  | 10  | 0.07  | 20  | 0.47 | 484  | 34  | 0.04  | 67  | 4510  | 18  | <5  | 56  | 0.13  | <10 | <10 | 118 | <5  | 138 | -- | -- |
| 3432               | 4.31 | <0.2 | <5   | 510 | <0.5 | <2  | 3.44 | 0.5  | 14  | 52  | 259  | 3.63  | 20  | 0.48  | <10 | 0.85 | 439  | <1  | 0.43  | 8   | 4600  | 6   | <5  | 172 | 0.25  | <10 | <10 | 105 | <5  | 62  | -- | -- |
| 3433               | 1.98 | <0.2 | <5   | 10  | <0.5 | <2  | 2.32 | <0.5 | 13  | 86  | 454  | 4.97  | 10  | 0.04  | <10 | 0.33 | 400  | 2   | 0.09  | 8   | 810   | 4   | <5  | 44  | 0.17  | <10 | <10 | 43  | <5  | 36  | -- | -- |
| 3434               | 4.23 | <0.2 | <5   | 50  | <0.5 | <2  | 1.73 | <0.5 | 21  | 57  | 346  | 6.37  | 10  | 0.19  | 10  | 1.73 | 916  | <1  | 0.37  | 16  | 960   | 12  | <5  | 73  | 0.39  | <10 | <10 | 179 | <5  | 98  | -- | -- |
| 3435               | 4.86 | <0.2 | <5   | 160 | <0.5 | <2  | 2.19 | 0.5  | 13  | 92  | 294  | 4.32  | 10  | 0.67  | <10 | 1.32 | 526  | <1  | 0.65  | 11  | 910   | 4   | <5  | 174 | 0.30  | <10 | <10 | 148 | <5  | 62  | -- | -- |
| 3436               | 4.19 | <0.2 | 5    | 150 | <0.5 | <2  | 1.85 | <0.5 | 17  | 115 | 104  | 5.33  | 10  | 0.40  | 10  | 1.55 | 650  | <1  | 0.41  | 12  | 810   | 34  | <5  | 114 | 0.20  | <10 | <10 | 165 | <5  | 114 | -- | -- |
| 3437               | 0.28 | 0.2  | 100  | <10 | <0.5 | 16  | 0.17 | <0.5 | 7   | 196 | 1093 | 2.19  | <10 | <0.01 | <10 | 0.07 | 110  | <1  | 0.01  | 5   | 60    | 6   | <5  | 3   | 0.01  | <10 | <10 | 9   | <5  | 26  | -- | -- |
| 3438               | 0.57 | 0.6  | 95   | <10 | <0.5 | 24  | 0.32 | <0.5 | 17  | 132 | 1207 | 4.17  | <10 | 0.02  | <10 | 0.16 | 196  | <1  | 0.02  | 6   | 160   | 6   | <5  | 4   | 0.03  | <10 | <10 | 20  | <5  | 34  | -- | -- |
| 3439               | 3.00 | <0.2 | <5   | 340 | <0.5 | <2  | 1.16 | 0.5  | 16  | 77  | 142  | 5.30  | 10  | 0.52  | 10  | 1.28 | 778  | <1  | 0.09  | 12  | 640   | 6   | <5  | 20  | 0.36  | <10 | <10 | 200 | <5  | 88  | -- | -- |
| 3440               | 3.70 | <0.2 | 5    | 420 | <0.5 | <2  | 2.50 | <0.5 | 17  | 128 | 375  | 4.62  | 10  | 0.25  | <10 | 0.65 | 593  | <1  | 0.23  | 14  | 630   | 8   | <5  | 111 | 0.22  | <10 | <10 | 96  | <5  | 54  | -- | -- |
| 3441               | 2.88 | 1.8  | <5   | 30  | <0.5 | <2  | 0.63 | <0.5 | 50  | 41  | 1011 | 15.00 | <10 | 0.17  | <10 | 0.93 | 392  | <1  | 0.01  | 22  | 420   | 18  | <5  | 24  | 0.17  | <10 | <10 | 103 | <5  | 26  | -- | -- |
| 3442               | 2.37 | <0.2 | <5   | 30  | <0.5 | <2  | 3.89 | <0.5 | 19  | 88  | 95   | 5.15  | 20  | 0.26  | <10 | 1.25 | 790  | <1  | 0.09  | 17  | 1450  | 8   | <5  | 29  | 0.45  | <10 | <10 | 155 | <5  | 80  | -- | -- |
| 3443               | 3.54 | <0.2 | <5   | 230 | <0.5 | <2  | 1.98 | 0.5  | 15  | 83  | 79   | 4.12  | 10  | 0.59  | <10 | 1.30 | 676  | <1  | 0.21  | 13  | 900   | <2  | <5  | 104 | 0.31  | <10 | <10 | 95  | <5  | 92  | -- | -- |
| 3444               | 2.36 | <0.2 | <5   | <10 | <0.5 | <2  | 2.36 | <0.5 | 25  | 29  | 833  | 7.74  | 20  | 0.07  | <10 | 0.89 | 561  | <1  | 0.08  | 5   | 1430  | 6   | <5  | 6   | 0.44  | <10 | <10 | 120 | <5  | 56  | -- | -- |
| 3445               | 0.98 | 0.2  | 300  | 20  | <0.5 | <2  | 0.11 | <0.5 | 25  | 137 | 3546 | 8.68  | <10 | 0.06  | <10 | 0.16 | 132  | <1  | 0.01  | 10  | 320   | 8   | <5  | 2   | 0.01  | <10 | <10 | 23  | <5  | 28  | -- | -- |
| 3446               | 1.37 | 3.2  | 1705 | 20  | <0.5 | <2  | 0.05 | <0.5 | 84  | 90  | 4710 | 12.43 | <10 | 0.06  | <10 | 0.30 | 215  | <1  | <0.01 | 18  | 260   | 24  | <5  | 1   | 0.02  | <10 | <10 | 29  | <5  | 34  | -- | -- |
| 3447               | 1.02 | 0.6  | 375  | 20  | <0.5 | <2  | 0.05 | <0.5 | 35  | 136 | 5288 | 8.31  | <10 | 0.09  | <10 | 0.21 | 143  | <1  | <0.01 | 12  | 260   | 6   | <5  | 1   | <0.01 | <10 | <10 | 26  | <5  | 22  | -- | -- |
| 3448               | 1.56 | 2.8  | <5   | <10 | <0.5 | <2  | 1.81 | 0.5  | 48  | 42  | 7726 | 10.78 | <10 | 0.02  | <10 | 0.54 | 285  | <1  | 0.01  | 9   | 3230  | 4   | <5  | 35  | 0.12  | <10 | <10 | 37  | <5  | 158 | -- | -- |
| 3449               | 0.48 | <0.2 | 115  | 40  | <0.5 | <2  | 0.45 | <0.5 | 3   | 173 | 586  | 1.05  | <10 | 0.16  | <10 | 0.09 | 95   | <1  | 0.01  | 5   | 500   | <2  | <5  | <1  | 0.01  | <10 | <10 | 27  | <5  | 48  | -- | -- |
| 3450               | 2.14 | <0.2 | 10   | 70  | <0.5 | <2  | 1.84 | <0.5 | 29  | 25  | 403  | 7.81  | 10  | 0.14  | 10  | 0.92 | 587  | <1  | 0.09  | 9   | 1160  | 8   | <5  | 5   | 0.34  | <10 | <10 | 319 | <5  | 124 | -- | -- |
| 3951               | 4.63 | <0.2 | 10   | 30  | <0.5 | <2  | 4.54 | <0.5 | 28  | 204 | 447  | 4.38  | 20  | 0.11  | <10 | 0.90 | 1008 | <1  | 0.44  | 64  | 480   | 16  | <5  | 48  | 0.33  | <10 | <10 | 94  | <5  | 420 | -- | -- |
| 3952               | 2.27 | <0.2 | <5   | 40  | <0.5 | <2  | 1.91 | <0.5 | 22  | 29  | 325  | 5.78  | 10  | 0.10  | <10 | 0.84 | 536  | <1  | 0.16  | 15  | 810   | 6   | <5  | 17  | 0.35  | <10 | <10 | 246 | <5  | 120 | -- | -- |
| 3953               | 1.04 | 0.2  | 330  | 20  | <0.5 | <2  | 0.10 | <0.5 | 28  | 126 | 926  | 7.33  | <10 | 0.12  | <10 | 0.23 | 149  | <1  | 0.01  | 10  | 320   | 12  | <5  | 1   | 0.03  | <10 | <10 | 40  | <5  | 40  | -- | -- |
| 3954               | 1.71 | 1.6  | <5   | <10 | <0.5 | <2  | 2.83 | <0.5 | 63  | 28  | 8492 | 11.08 | 10  | 0.04  | <10 | 0.41 | 206  | <1  | <0.01 | 12  | 5810  | 8   | <5  | 19  | 0.13  | <10 | <10 | 35  | <5  | 62  | -- | -- |
| 3955               | 2.88 | 0.8  | <5   | <10 | <0.5 | <2  | 2.23 | <0.5 | 20  | 41  | 4210 | 13.13 | 10  | <0.01 | 10  | 1.00 | 460  | <1  | <0.01 | 3   | 4380  | 14  | <5  | 31  | 0.12  | <10 | <10 | 14  | <5  | 56  | -- | -- |
| 3956               | 7.11 | 0.2  | 30   | 20  | 0.5  | <2  | 9.22 | <0.5 | 10  | 54  | 107  | 3.19  | 30  | 0.07  | <10 | 0.45 | 296  | 5   | <0.01 | 6   | 460   | 24  | <5  | <1  | 0.12  | <10 | <10 | 45  | <5  | 38  | -- | -- |
| 3957               | 5.19 | <0.2 | 325  | 160 | <0.5 | <2  | 7.99 | <0.5 | 18  | 33  | 381  | 6.36  | 30  | 0.32  | <10 | 1.24 | 1363 | 4   | 0.14  | 9   | >>>>> | 4   | <5  | 178 | 0.06  | <10 | <10 | 121 | <5  | 80  | -- | -- |
| 3958               | 5.95 | <0.2 | <5   | 230 | <0.5 | <2  | 7.51 | <0.5 | 17  | 22  | 539  | 4.73  | 30  | 0.47  | <10 | 0.80 | 210  | <1  | 0.20  | 6   | >>>>> | 8   | <5  | 55  | 0.10  | <10 | <10 | 89  | <5  | 30  | -- | -- |
| 3959               | 2.18 | <0.2 | 5    | 10  | <0.5 | <2  | 1.52 | <0.5 | 25  | 46  | 314  | 3.47  | 10  | 0.08  | <10 | 0.69 | 271  | <1  | 0.22  | 18  | 1200  | 10  | <5  | 72  | 0.28  | <10 | <10 | 71  | <5  | 36  | -- | -- |
| 3960               | 2.48 | 0.2  | 10   | 50  | <0.5 | <2  | 1.78 | <0.5 | 27  | 56  | 696  | 11.31 | 10  | 0.21  | 10  | 0.87 | 451  | 1   | 0.08  | 19  | 5610  | 16  | <5  | 19  | 0.17  | <10 | <10 | 121 | 40  | 50  | -- | -- |

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Certified by .. *Hewitt Bickler* ..



# Chemex Labs Ltd.

-Analytical Chemists    -Geochemists    -Registered Assayers

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Telex: 043-52597

## CERTIFICATE OF ANALYSIS

TO : ROSSBACHER LABORATORY LIMITED  
2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

CERT. # : A8620320-002-A  
INVOICE # : 18620320  
DATE : 24-NOV-86  
P.O. # : NONE  
V232

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :  
ATTN: P. ROSSBACHER

| Sample description | Al   | Ag   | As  | Ba  | Be   | Bi  | Ca   | Cd   | Co  | Cr  | Cu   | Fe    | Ga  | K    | La  | Mg   | Mn  | Mo  | Na    | Ni  | P     | Pb  | Sb  | Sr  | Ti   | Tl  | U   | V   | W   | Zn  |    |    |
|--------------------|------|------|-----|-----|------|-----|------|------|-----|-----|------|-------|-----|------|-----|------|-----|-----|-------|-----|-------|-----|-----|-----|------|-----|-----|-----|-----|-----|----|----|
|                    | µg   | ppm  | ppm | ppm | ppm  | ppm | µg   | ppm  | ppm | ppm | ppm  | µg    | ppm | µg   | ppm | µg   | ppm | ppm | µg    | ppm | ppm   | ppm | ppm | ppm | µg   | ppm | ppm | ppm | ppm | ppm |    |    |
| 3961               | 1.18 | 0.2  | 5   | 30  | <0.5 | 12  | 0.54 | <0.5 | 16  | 69  | 647  | 6.34  | <10 | 0.16 | <10 | 0.50 | 228 | 3   | 0.09  | 11  | 430   | 2   | <5  | 20  | 0.18 | <10 | <10 | 85  | <5  | 38  | -- | -- |
| 3962               | 2.84 | <0.2 | <5  | 30  | <0.5 | <2  | 1.62 | <0.5 | 19  | 65  | 687  | 5.93  | 10  | 0.13 | <10 | 0.76 | 336 | <1  | 0.27  | 12  | 570   | 2   | <5  | 52  | 0.20 | <10 | <10 | 100 | <5  | 42  | -- | -- |
| 3963               | 1.44 | 0.4  | <5  | 20  | <0.5 | <2  | 1.51 | <0.5 | 17  | 62  | 249  | 3.92  | 10  | 0.10 | 10  | 0.38 | 343 | <1  | 0.13  | 18  | 1760  | 2   | <5  | 30  | 0.29 | <10 | <10 | 60  | <5  | 36  | -- | -- |
| 3964               | 2.65 | 0.2  | <5  | 10  | <0.5 | <2  | 5.66 | <0.5 | 18  | 44  | 1469 | 13.54 | 20  | 0.02 | <10 | 1.08 | 663 | <1  | <0.01 | 6   | >9999 | 12  | <5  | 72  | 0.18 | <10 | <10 | 65  | 30  | 44  | -- | -- |
| 3965               | 3.53 | 0.2  | <5  | 20  | <0.5 | <2  | 4.91 | <0.5 | 19  | 38  | 843  | 15.00 | 20  | 0.54 | <10 | 1.58 | 443 | <1  | 0.01  | 6   | >9999 | 16  | <5  | <1  | 0.03 | <10 | <10 | 106 | 45  | 42  | -- | -- |
| 3966               | 2.89 | 0.4  | 10  | 10  | <0.5 | <2  | 2.73 | <0.5 | 54  | 41  | 1447 | 15.00 | 10  | 0.14 | 10  | 1.27 | 654 | <1  | <0.01 | 10  | >9999 | 24  | <5  | 30  | 0.12 | <10 | <10 | 83  | 5   | 40  | -- | -- |
| 3967               | 2.94 | 0.2  | <5  | 60  | <0.5 | <2  | 2.53 | <0.5 | 13  | 120 | 304  | 4.03  | 10  | 0.13 | <10 | 0.26 | 346 | <1  | 0.09  | 13  | 490   | 6   | <5  | 92  | 0.19 | <10 | <10 | 59  | <5  | 70  | -- | -- |
| H1                 | 2.80 | 0.2  | 30  | 130 | <0.5 | <2  | 1.10 | <0.5 | 18  | 366 | 57   | 3.45  | <10 | 0.13 | 20  | 0.99 | 839 | <1  | 0.04  | 28  | 950   | 22  | <5  | 56  | 0.15 | <10 | <10 | 101 | <5  | 86  | -- | -- |
| H2                 | 3.12 | 1.4  | 45  | 110 | <0.5 | <2  | 0.99 | <0.5 | 23  | 623 | 110  | 4.34  | <10 | 0.25 | 10  | 1.16 | 986 | <1  | 0.04  | 35  | 770   | 236 | <5  | 61  | 0.18 | <10 | <10 | 124 | <5  | 118 | -- | -- |

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Certified by ... *H. B. Schler* ...

#7278



# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

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CANADA V7J 2C1

TELEPHONE: (604) 984-0221  
TELEX: 043-52597

Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : ROSSBACHER LABORATORY LIMITED  
2325 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

CERT. # : A8621132-001-A  
INVOICE # : I8621132  
DATE : 9-DEC-86  
P.O. # : NONE  
V222 RACK E1

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :  
ATTN: PETER ROSSBACHER

| Sample description | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca %  | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe %  | Ga ppm | K %   | La ppm | Mg % | Mn ppm | Mo ppm | Na %  | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %  | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |    |    |
|--------------------|------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|--------|-------|--------|------|--------|--------|-------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|--------|----|----|
| 3929               | 0.36 | 0.2    | 5      | 80     | <0.5   | <2     | 1.25  | <0.5   | 3      | 126    | 6      | 0.73  | <10    | 0.19  | 10     | 0.04 | 380    | <1     | <0.01 | 4      | 140   | 4      | <5     | <1     | <0.01 | <10    | <10   | 7     | <5    | 20     | -- | -- |
| 14001              | 1.72 | <0.2   | <5     | 10     | <0.5   | <2     | 2.71  | 3.0    | 8      | 59     | 133    | 8.30  | 10     | <0.01 | <10    | 0.09 | 1569   | <1     | <0.01 | 3      | 560   | <2     | <5     | 8      | 0.08  | <10    | <10   | 16    | <5    | 1344   | -- | -- |
| 14002              | 2.44 | 1.6    | 1030   | 10     | <0.5   | <2     | 1.68  | <0.5   | 103    | 77     | 699    | 15.00 | 10     | 0.01  | 10     | 0.91 | 268    | 41     | 0.01  | 21     | 730   | <2     | <5     | 40     | 0.23  | <10    | <10   | 157   | <5    | 60     | -- | -- |
| 14003              | 2.10 | <0.2   | 15     | 20     | <0.5   | <2     | 1.45  | <0.5   | 18     | 50     | 379    | 6.14  | <10    | 0.08  | 10     | 0.78 | 494    | <1     | 0.14  | 16     | 1250  | <2     | <5     | 25     | 0.24  | <10    | <10   | 106   | <5    | 34     | -- | -- |
| 14051              | 0.50 | <0.2   | 35     | <10    | <0.5   | <2     | 0.39  | <0.5   | 6      | 117    | 132    | 4.94  | <10    | <0.01 | <10    | 0.07 | 82     | 3      | <0.01 | 13     | 290   | <2     | <5     | 4      | 0.01  | <10    | <10   | 58    | <5    | 16     | -- | -- |
| 14052              | 2.37 | 1.6    | 10     | 20     | <0.5   | <2     | 0.50  | 0.5    | 42     | 50     | 1969   | 10.55 | 10     | 0.07  | 10     | 0.82 | 407    | <1     | 0.04  | 12     | 820   | <2     | <5     | 11     | 0.23  | <10    | <10   | 89    | <5    | 40     | -- | -- |
| 14053              | 0.13 | <0.2   | 5      | <10    | <0.5   | <2     | 0.01  | <0.5   | 2      | 170    | 58     | 0.67  | <10    | 0.01  | <10    | 0.04 | 68     | 1      | <0.01 | 4      | 10    | <2     | <5     | <1     | <0.01 | <10    | <10   | 9     | <5    | 8      | -- | -- |
| 14054              | 2.20 | 0.2    | <5     | 140    | <0.5   | <2     | 1.33  | <0.5   | 11     | 55     | 42     | 2.23  | <10    | 0.11  | 10     | 0.59 | 3181   | 3      | 0.02  | 6      | 900   | 2      | <5     | 47     | 0.19  | <10    | <10   | 25    | <5    | 78     | -- | -- |
| 14055              | 1.72 | 0.2    | <5     | 40     | <0.5   | 4      | 11.97 | <0.5   | 13     | 51     | 17     | 2.91  | <10    | 0.08  | <10    | 1.11 | 1760   | <1     | 0.01  | 19     | 680   | <2     | <5     | 77     | <0.01 | <10    | <10   | 62    | <5    | 34     | -- | -- |

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*Hart Bichler*

Certified by .....

RL CRAMING



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
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PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8710323

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 1-A

Tot. Pages: 3

Date : 26-JAN-87

Invoice #: I-8710323

P.O. #: NONE

Project: V 222 RACK D

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na % |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|------|
| 4101               | 221 238   | 2.51 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 3.02 | < 0.5  | 7      | 48     | 4      | 2.20 | < 10   | 0.10 | < 10   | 0.71 | 451    | < 1    | 0.18 |
| 4102               | 221 238   | 2.02 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.65 | < 0.5  | 12     | 51     | 54     | 3.13 | < 10   | 0.06 | < 10   | 0.98 | 586    | < 1    | 0.09 |
| 4103               | 221 238   | 1.37 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.45 | < 0.5  | 10     | 56     | 78     | 2.73 | < 10   | 0.06 | < 10   | 0.67 | 445    | < 1    | 0.06 |
| 4104               | 221 238   | 1.53 | 0.2    | < 5    | 10     | < 0.5  | < 2    | 1.11 | < 0.5  | 17     | 41     | 118    | 3.46 | < 10   | 0.07 | < 10   | 0.87 | 535    | < 1    | 0.07 |
| 4105               | 221 238   | 1.44 | 0.4    | < 5    | 10     | < 0.5  | < 2    | 1.13 | < 0.5  | 22     | 50     | 253    | 4.35 | < 10   | 0.09 | < 10   | 0.76 | 496    | < 1    | 0.09 |
| 4106               | 221 238   | 1.56 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 1.57 | < 0.5  | 12     | 46     | 94     | 3.02 | < 10   | 0.13 | < 10   | 0.77 | 426    | < 1    | 0.06 |
| 4107               | 221 238   | 1.55 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 3.36 | < 0.5  | 12     | 50     | 61     | 1.85 | < 10   | 0.05 | < 10   | 0.46 | 305    | < 1    | 0.04 |
| 4108               | 221 238   | 1.78 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 3.35 | < 0.5  | 15     | 49     | 73     | 2.67 | < 10   | 0.06 | < 10   | 0.71 | 442    | < 1    | 0.06 |
| 4109               | 221 238   | 1.60 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 3.11 | < 0.5  | 11     | 47     | 46     | 2.36 | < 10   | 0.06 | < 10   | 0.64 | 395    | < 1    | 0.07 |
| 4110               | 221 238   | 1.13 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.84 | < 0.5  | 8      | 32     | 50     | 2.10 | < 10   | 0.07 | < 10   | 0.58 | 385    | < 1    | 0.06 |
| 4111               | 221 238   | 2.78 | < 0.2  | < 5    | 10     | 0.5    | < 2    | 8.89 | < 0.5  | 15     | 35     | < 1    | 4.51 | < 20   | 0.06 | < 10   | 1.38 | 1025   | < 1    | 0.02 |
| 4112               | 221 238   | 1.36 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 1.67 | < 0.5  | 9      | 35     | 39     | 2.22 | < 10   | 0.14 | < 10   | 0.58 | 389    | < 1    | 0.10 |
| 4113               | 221 238   | 3.04 | < 0.2  | < 5    | 70     | < 0.5  | < 2    | 1.87 | < 0.5  | 9      | 65     | 6      | 2.25 | < 10   | 0.40 | < 10   | 0.70 | 408    | < 1    | 0.42 |
| 4114               | 221 238   | 2.22 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 2.16 | < 0.5  | 12     | 50     | 73     | 3.13 | < 10   | 0.17 | < 10   | 0.79 | 530    | < 1    | 0.19 |
| 4115               | 221 238   | 1.37 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.70 | < 0.5  | 10     | 38     | 56     | 2.53 | < 10   | 0.10 | 10     | 0.65 | 458    | < 1    | 0.12 |
| 4116               | 221 238   | 2.02 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 4.90 | < 0.5  | 14     | 27     | 14     | 3.81 | < 10   | 0.15 | < 10   | 1.19 | 810    | < 1    | 0.04 |
| 4117               | 221 238   | 1.39 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 2.36 | < 0.5  | 9      | 37     | 17     | 1.52 | < 10   | 0.07 | < 10   | 0.45 | 332    | < 1    | 0.06 |
| 4118               | 221 238   | 2.01 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 2.45 | < 0.5  | 16     | 29     | 77     | 2.98 | < 10   | 0.09 | < 10   | 0.72 | 431    | < 1    | 0.11 |
| 4119               | 221 238   | 1.38 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.30 | < 0.5  | 11     | 35     | 68     | 2.44 | < 10   | 0.06 | 10     | 0.62 | 326    | < 1    | 0.08 |
| 4120               | 221 238   | 1.89 | 0.2    | < 5    | 40     | < 0.5  | < 2    | 1.25 | < 0.5  | 12     | 42     | 86     | 3.31 | < 10   | 0.15 | 10     | 0.81 | 394    | < 1    | 0.12 |
| 4121               | 221 238   | 1.32 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 2.27 | < 0.5  | 14     | 35     | 130    | 2.50 | < 10   | 0.05 | < 10   | 0.59 | 415    | < 1    | 0.07 |
| 4122               | 221 238   | 1.01 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.73 | < 0.5  | 10     | 31     | 114    | 1.97 | < 10   | 0.04 | < 10   | 0.49 | 336    | < 1    | 0.08 |
| 4123               | 221 238   | 1.21 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 2.69 | < 0.5  | 14     | 70     | 164    | 1.80 | < 10   | 0.02 | < 10   | 0.22 | 254    | < 1    | 0.07 |
| 4124               | 221 238   | 1.28 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.94 | < 0.5  | 9      | 35     | 62     | 1.65 | < 10   | 0.05 | < 10   | 0.49 | 328    | < 1    | 0.11 |
| 4125               | 221 238   | 2.24 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 4.35 | < 0.5  | 12     | 62     | 38     | 3.15 | 10     | 0.03 | < 10   | 0.70 | 649    | < 1    | 0.07 |
| 4126               | 221 238   | 2.50 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 3.94 | < 0.5  | 16     | 54     | 324    | 4.50 | < 10   | 0.15 | < 10   | 1.09 | 676    | < 1    | 0.11 |
| 4127               | 221 238   | 1.80 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 1.97 | < 0.5  | 12     | 38     | 58     | 3.44 | < 10   | 0.08 | < 10   | 0.90 | 540    | < 1    | 0.09 |
| 4128               | 221 238   | 2.35 | < 0.4  | < 5    | 10     | < 0.5  | < 2    | 4.86 | < 2.0  | 16     | 29     | 82     | 4.73 | 10     | 0.12 | < 10   | 1.21 | 960    | < 1    | 0.04 |
| 4129               | 221 238   | 2.59 | < 0.2  | < 5    | 10     | 0.5    | < 2    | 4.70 | < 0.5  | 13     | 27     | 30     | 3.77 | 10     | 0.09 | < 10   | 1.10 | 707    | < 1    | 0.03 |
| 4130               | 221 238   | 1.86 | 0.2    | < 5    | 10     | < 0.5  | < 2    | 1.17 | < 0.5  | 18     | 33     | 164    | 4.09 | < 10   | 0.07 | 10     | 0.96 | 528    | < 1    | 0.08 |
| 4131               | 221 238   | 1.44 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.75 | < 0.5  | 11     | 24     | 78     | 2.73 | < 10   | 0.06 | < 10   | 0.73 | 430    | < 1    | 0.06 |
| 4132               | 221 238   | 1.82 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.96 | < 0.5  | 13     | 23     | 154    | 2.21 | < 10   | 0.03 | < 10   | 0.66 | 275    | < 1    | 0.14 |
| 4133               | 221 238   | 1.55 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.72 | < 0.5  | 16     | 23     | 161    | 1.90 | < 10   | 0.04 | < 10   | 0.53 | 228    | < 1    | 0.16 |
| 4134               | 221 238   | 2.29 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 3.24 | < 0.5  | 23     | 31     | 196    | 3.88 | 10     | 0.03 | < 10   | 1.31 | 457    | < 1    | 0.06 |
| 4135               | 221 238   | 2.82 | 0.4    | < 5    | 10     | < 0.5  | < 2    | 4.03 | < 0.5  | 30     | 25     | 422    | 4.82 | 10     | 0.04 | < 10   | 1.40 | 532    | < 1    | 0.06 |
| 4136               | 221 238   | 3.28 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 7.19 | < 0.5  | 46     | 25     | 398    | 6.65 | < 20   | 0.05 | < 10   | 1.59 | 629    | < 1    | 0.07 |
| 4137               | 221 238   | 1.99 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.92 | < 0.5  | 22     | 15     | 251    | 3.19 | < 10   | 0.07 | < 10   | 0.75 | 339    | < 1    | 0.15 |
| 4138               | 221 238   | 1.81 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 2.29 | < 0.5  | 18     | 21     | 148    | 2.79 | < 10   | 0.03 | < 10   | 0.71 | 296    | < 1    | 0.06 |
| 4139               | 221 238   | 1.46 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.55 | < 0.5  | 20     | 13     | 209    | 2.79 | < 10   | 0.05 | < 10   | 0.55 | 269    | < 1    | 0.14 |
| 4140               | 221 238   | 3.53 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 2.62 | < 0.5  | 28     | 15     | 159    | 5.42 | 10     | 0.03 | < 10   | 1.18 | 484    | < 1    | 0.03 |

CERTIFICATION :

*B. Coughlin*

RECEIVED JAN 30 1987



# Chemex Labs Ltd.

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 212 BROOKSBANK AVE., NORTH VANCOUVER,  
 BRITISH COLUMBIA, CANADA V7J-2C1  
 PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8710323

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 1-B  
 Tot. Pages: 3  
 Date : 26-JAN-87  
 Invoice #: I-8710323  
 P.O. #: NONE

Project : V 222 RACK D

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|
| 4101               | 221 238   | 7      | 1230  | < 2    | < 5    | 50     | 0.11 | < 10   | < 10  | 75    | < 5   | 40     |  |  |  |  |  |  |  |
| 4102               | 221 238   | 9      | 1190  | 2      | < 5    | 25     | 0.13 | < 10   | < 10  | 110   | < 5   | 84     |  |  |  |  |  |  |  |
| 4103               | 221 238   | 10     | 870   | 2      | < 5    | 18     | 0.12 | < 10   | < 10  | 90    | < 5   | 74     |  |  |  |  |  |  |  |
| 4104               | 221 238   | 13     | 1090  | 2      | < 5    | 15     | 0.23 | < 10   | < 10  | 119   | < 5   | 52     |  |  |  |  |  |  |  |
| 4105               | 221 238   | 12     | 890   | 4      | < 5    | 17     | 0.26 | < 10   | < 10  | 112   | < 5   | 54     |  |  |  |  |  |  |  |
| 4106               | 221 238   | 9      | 790   | 2      | < 5    | 33     | 0.24 | < 10   | < 10  | 95    | < 5   | 56     |  |  |  |  |  |  |  |
| 4107               | 221 238   | 8      | 790   | < 2    | < 5    | 39     | 0.18 | < 10   | < 10  | 59    | < 5   | 44     |  |  |  |  |  |  |  |
| 4108               | 221 238   | 11     | 780   | 6      | < 5    | 56     | 0.19 | < 10   | < 10  | 79    | < 5   | 54     |  |  |  |  |  |  |  |
| 4109               | 221 238   | 8      | 680   | 2      | < 5    | 54     | 0.15 | < 10   | < 10  | 71    | < 5   | 40     |  |  |  |  |  |  |  |
| 4110               | 221 238   | 7      | 770   | 4      | < 5    | 27     | 0.17 | < 10   | < 10  | 69    | < 5   | 32     |  |  |  |  |  |  |  |
| 4111               | 221 238   | 8      | 590   | < 2    | < 5    | 169    | 0.09 | < 10   | < 10  | 72    | < 5   | 56     |  |  |  |  |  |  |  |
| 4112               | 221 238   | 8      | 880   | 2      | < 5    | 29     | 0.14 | < 10   | < 10  | 61    | < 5   | 38     |  |  |  |  |  |  |  |
| 4113               | 221 238   | 9      | 750   | < 2    | < 5    | 58     | 0.22 | < 10   | < 10  | 110   | < 5   | 46     |  |  |  |  |  |  |  |
| 4114               | 221 238   | 11     | 930   | 2      | < 5    | 48     | 0.20 | < 10   | < 10  | 83    | < 5   | 60     |  |  |  |  |  |  |  |
| 4115               | 221 238   | 9      | 940   | 2      | < 5    | 38     | 0.21 | < 10   | < 10  | 83    | < 5   | 42     |  |  |  |  |  |  |  |
| 4116               | 221 238   | 9      | 1050  | < 2    | < 5    | 64     | 0.21 | < 10   | < 10  | 98    | < 5   | 58     |  |  |  |  |  |  |  |
| 4117               | 221 238   | 5      | 960   | 2      | < 5    | 60     | 0.20 | < 10   | < 10  | 58    | < 5   | 54     |  |  |  |  |  |  |  |
| 4118               | 221 238   | 10     | 650   | < 2    | < 5    | 37     | 0.20 | < 10   | < 10  | 111   | < 5   | 40     |  |  |  |  |  |  |  |
| 4119               | 221 238   | 10     | 890   | 4      | < 5    | 28     | 0.19 | < 10   | < 10  | 69    | < 5   | 42     |  |  |  |  |  |  |  |
| 4120               | 221 238   | 9      | 870   | 2      | < 5    | 42     | 0.26 | < 10   | < 10  | 96    | < 5   | 52     |  |  |  |  |  |  |  |
| 4121               | 221 238   | 9      | 870   | 4      | < 5    | 42     | 0.20 | < 10   | < 10  | 81    | < 5   | 42     |  |  |  |  |  |  |  |
| 4122               | 221 238   | 7      | 970   | 2      | < 5    | 27     | 0.14 | < 10   | < 10  | 53    | < 5   | 42     |  |  |  |  |  |  |  |
| 4123               | 221 238   | 6      | 490   | 2      | < 5    | 31     | 0.08 | < 10   | < 10  | 21    | < 5   | 34     |  |  |  |  |  |  |  |
| 4124               | 221 238   | 7      | 1020  | 2      | < 5    | 39     | 0.18 | < 10   | < 10  | 58    | < 5   | 34     |  |  |  |  |  |  |  |
| 4125               | 221 238   | 9      | 1060  | 4      | < 5    | 60     | 0.18 | < 10   | < 10  | 54    | < 5   | 46     |  |  |  |  |  |  |  |
| 4126               | 221 238   | 11     | 960   | 14     | < 5    | 42     | 0.21 | < 10   | < 10  | 105   | < 5   | 64     |  |  |  |  |  |  |  |
| 4127               | 221 238   | 9      | 780   | 2      | < 5    | 25     | 0.22 | < 10   | < 10  | 106   | < 5   | 52     |  |  |  |  |  |  |  |
| 4128               | 221 238   | 10     | 870   | 38     | < 5    | 52     | 0.19 | < 10   | < 10  | 105   | < 5   | 144    |  |  |  |  |  |  |  |
| 4129               | 221 238   | 9      | 800   | 14     | < 5    | 52     | 0.17 | < 10   | < 10  | 96    | < 5   | 58     |  |  |  |  |  |  |  |
| 4130               | 221 238   | 10     | 1070  | 4      | < 5    | 37     | 0.26 | < 10   | < 10  | 123   | < 5   | 68     |  |  |  |  |  |  |  |
| 4131               | 221 238   | 7      | 1310  | < 2    | < 5    | 24     | 0.14 | < 10   | < 10  | 81    | < 5   | 42     |  |  |  |  |  |  |  |
| 4132               | 221 238   | 18     | 610   | 2      | < 5    | 49     | 0.14 | < 10   | < 10  | 69    | < 5   | 32     |  |  |  |  |  |  |  |
| 4133               | 221 238   | 26     | 510   | 4      | < 5    | 47     | 0.14 | < 10   | < 10  | 61    | < 5   | 24     |  |  |  |  |  |  |  |
| 4134               | 221 238   | 31     | 520   | 4      | < 5    | 36     | 0.17 | < 10   | < 10  | 128   | < 5   | 46     |  |  |  |  |  |  |  |
| 4135               | 221 238   | 34     | 650   | 4      | < 5    | 53     | 0.27 | < 10   | < 10  | 147   | < 5   | 52     |  |  |  |  |  |  |  |
| 4136               | 221 238   | 50     | 630   | 2      | < 5    | 50     | 0.22 | < 10   | < 10  | 163   | < 5   | 56     |  |  |  |  |  |  |  |
| 4137               | 221 238   | 24     | 690   | 4      | < 5    | 75     | 0.21 | < 10   | < 10  | 105   | < 5   | 34     |  |  |  |  |  |  |  |
| 4138               | 221 238   | 19     | 630   | 2      | < 5    | 34     | 0.19 | < 10   | < 10  | 94    | < 5   | 38     |  |  |  |  |  |  |  |
| 4139               | 221 238   | 16     | 750   | < 2    | < 5    | 41     | 0.15 | < 10   | < 10  | 94    | < 5   | 36     |  |  |  |  |  |  |  |
| 4140               | 221 238   | 19     | 800   | 2      | < 5    | 40     | 0.18 | < 10   | < 10  | 160   | < 5   | 62     |  |  |  |  |  |  |  |

CERTIFICATION : B. Tangle





# Chemex Labs Ltd.

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## CERTIFICATE OF ANALYSIS A8710328

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 1-A  
 Tot. Pages: 2  
 Date : 27-JAN-87  
 Invoice # : I-8710328  
 P.O. # : NONE

Project : V 222 RACK H  
 Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca %  | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe %   | Ga ppm | K %    | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|
| 4141               | 221 238   | 1.42 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 2.17  | < 0.5  | 22     | 15     | 266    | 3.78   | < 10   | 0.05   | < 10   | 0.71 | 380    | < 1    | 0.07   |
| 4142               | 221 238   | 1.46 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.27  | < 0.5  | 19     | 16     | 118    | 3.57   | < 10   | 0.03   | < 10   | 0.74 | 326    | < 1    | 0.05   |
| 4143               | 221 238   | 1.34 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.38  | < 0.5  | 19     | 23     | 141    | 3.09   | < 10   | 0.02   | < 10   | 0.40 | 259    | < 1    | 0.09   |
| 4144               | 221 238   | 1.61 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.52  | < 0.5  | 30     | 14     | 322    | 4.45   | < 10   | 0.04   | < 10   | 0.54 | 281    | < 1    | 0.13   |
| 4145               | 221 238   | 1.79 | 0.2    | < 5    | 10     | < 0.5  | < 2    | 1.64  | < 0.5  | 44     | 30     | 879    | 5.03   | < 10   | 0.03   | < 10   | 0.32 | 184    | < 1    | 0.23   |
| 4146               | 221 238   | 1.86 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.60  | < 0.5  | 20     | 13     | 224    | 2.78   | < 10   | 0.03   | < 10   | 0.30 | 174    | < 1    | 0.26   |
| 4147               | 221 238   | 2.57 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 2.22  | < 0.5  | 28     | 21     | 436    | 3.66   | < 10   | 0.02   | < 10   | 0.46 | 223    | < 1    | 0.30   |
| 4148               | 221 238   | 1.80 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.46  | < 0.5  | 28     | 16     | 456    | 3.75   | < 10   | 0.03   | < 10   | 0.41 | 191    | < 1    | 0.23   |
| 4149               | 221 238   | 1.54 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.37  | < 0.5  | 25     | 16     | 278    | 3.92   | < 10   | 0.04   | < 10   | 0.56 | 284    | < 1    | 0.12   |
| 4150               | 221 238   | 1.38 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.34  | < 0.5  | 25     | 13     | 273    | 3.89   | < 10   | 0.04   | < 10   | 0.57 | 285    | < 1    | 0.09   |
| 4151               | 221 238   | 1.28 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.60  | < 0.5  | 15     | 17     | 170    | 2.60   | < 10   | 0.05   | < 10   | 0.44 | 264    | < 1    | 0.10   |
| 4152               | 221 238   | 2.21 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 2.28  | < 0.5  | 25     | 13     | 225    | 4.97   | < 10   | 0.05   | < 10   | 1.00 | 485    | < 1    | 0.10   |
| 4153               | 221 238   | 1.07 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 1.12  | < 0.5  | 35     | 14     | 417    | 4.15   | < 10   | 0.03   | < 10   | 0.44 | 218    | < 1    | 0.05   |
| 4154               | 221 238   | 1.33 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.33  | < 0.5  | 35     | 18     | 478    | 4.87   | < 10   | 0.03   | < 10   | 0.59 | 262    | < 1    | 0.05   |
| 4155               | 221 238   | 1.26 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.37  | < 0.5  | 25     | 17     | 332    | 3.83   | < 10   | 0.04   | < 10   | 0.51 | 273    | < 1    | 0.06   |
| 4156               | 221 238   | 1.52 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.49  | < 0.5  | 18     | 13     | 220    | 3.43   | < 10   | 0.04   | < 10   | 0.60 | 343    | < 1    | 0.10   |
| 4157               | 221 238   | 2.72 | 0.4    | < 5    | < 10   | < 0.5  | < 2    | 11.25 | < 0.5  | 37     | 16     | 226    | 4.69   | 30     | < 0.01 | < 10   | 1.13 | 1215   | < 1    | 0.01   |
| 4158               | 221 238   | 1.64 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.76  | < 0.5  | 24     | 17     | 285    | 3.98   | < 10   | 0.04   | < 10   | 0.71 | 382    | < 1    | 0.09   |
| 4159               | 221 238   | 2.12 | 0.6    | 10     | < 10   | < 0.5  | < 2    | 6.47  | 11.0   | 56     | 42     | 2510   | 6.48   | 20     | 0.01   | < 10   | 1.08 | 585    | < 1    | < 0.01 |
| 4160               | 221 238   | 1.52 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.34  | < 0.5  | 15     | 17     | 216    | 3.51   | < 10   | 0.04   | < 10   | 0.55 | 306    | < 1    | 0.11   |
| 4161               | 221 238   | 1.24 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.19  | < 0.5  | 26     | 8      | 452    | 3.99   | < 10   | 0.06   | < 10   | 0.47 | 250    | < 1    | 0.06   |
| 4162               | 221 238   | 0.39 | 0.4    | < 5    | < 10   | < 0.5  | < 2    | 0.69  | < 0.5  | 1200   | 93     | 1785   | >15.00 | < 10   | < 0.01 | < 10   | 0.21 | 99     | < 1    | < 0.01 |
| 4163               | 221 238   | 1.11 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.06  | < 0.5  | 32     | 10     | 543    | 4.38   | < 10   | 0.05   | < 10   | 0.47 | 242    | < 1    | 0.06   |
| 4164               | 221 238   | 1.13 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.12  | < 0.5  | 30     | 21     | 517    | 3.98   | < 10   | 0.05   | < 10   | 0.49 | 242    | < 1    | 0.07   |
| 4165               | 221 238   | 1.61 | 1.0    | 105    | < 10   | < 0.5  | < 2    | 1.82  | < 0.5  | 88     | 43     | 1510   | 8.20   | < 10   | 0.06   | < 10   | 0.94 | 327    | < 1    | 0.01   |
| 4166               | 221 238   | 1.97 | 0.4    | 5      | < 10   | < 0.5  | < 2    | 1.73  | < 0.5  | 35     | 12     | 625    | 5.95   | < 10   | 0.04   | < 10   | 1.00 | 424    | < 1    | 0.03   |
| 4167               | 221 238   | 1.68 | < 0.8  | 10     | < 10   | < 0.5  | < 2    | 3.20  | < 0.5  | 53     | 41     | 889    | 6.50   | < 10   | 0.07   | < 10   | 1.07 | 540    | < 1    | 0.01   |
| 4168               | 221 238   | 2.03 | < 0.2  | 5      | 10     | < 0.5  | < 2    | 1.76  | < 0.5  | 24     | 73     | 330    | 3.84   | < 10   | 0.05   | < 10   | 1.28 | 377    | < 1    | 0.09   |
| 4169               | 221 238   | 1.26 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.17  | < 0.5  | 36     | 17     | 723    | 4.80   | < 10   | 0.04   | < 10   | 0.61 | 262    | < 1    | 0.04   |
| 4170               | 221 238   | 1.95 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 3.30  | < 0.5  | 23     | 48     | 285    | 4.61   | 10     | 0.02   | < 10   | 1.25 | 509    | < 1    | 0.01   |
| 4171               | 221 238   | 2.48 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.96  | < 0.5  | 27     | 26     | 268    | 5.46   | < 10   | 0.04   | < 10   | 1.32 | 566    | < 1    | 0.03   |
| 4172               | 221 238   | 2.11 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.60  | < 0.5  | 15     | 105    | 11     | 3.24   | < 10   | 0.06   | < 10   | 1.41 | 382    | < 1    | 0.12   |
| 4173               | 221 238   | 0.98 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.17  | < 0.5  | 23     | 55     | 278    | 2.62   | < 10   | 0.04   | < 10   | 0.56 | 222    | 6      | 0.04   |
| 4174               | 221 238   | 1.23 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.28  | < 0.5  | 31     | 29     | 468    | 3.49   | < 10   | 0.05   | < 10   | 0.54 | 253    | < 1    | 0.05   |
| 4175               | 221 238   | 1.23 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.19  | < 0.5  | 24     | 21     | 486    | 3.22   | < 10   | 0.04   | < 10   | 0.54 | 219    | < 1    | 0.07   |
| 4176               | 221 238   | 1.40 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.04  | < 0.5  | 29     | 35     | 687    | 3.21   | < 10   | 0.04   | < 10   | 0.38 | 152    | < 1    | 0.15   |
| 4177               | 221 238   | 1.22 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.08  | < 0.5  | 26     | 19     | 421    | 3.30   | < 10   | 0.05   | < 10   | 0.53 | 234    | < 1    | 0.07   |
| 4178               | 221 238   | 1.37 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.15  | < 0.5  | 52     | 25     | 295    | 4.62   | < 10   | 0.04   | < 10   | 0.69 | 265    | < 1    | 0.06   |
| 4179               | 221 238   | 1.88 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.53  | < 0.5  | 26     | 26     | 224    | 3.67   | < 10   | 0.03   | < 10   | 0.94 | 345    | < 1    | 0.05   |
| 4180               | 221 238   | 1.85 | < 0.2  | 5      | < 10   | < 0.5  | < 2    | 1.77  | < 0.5  | 25     | 33     | 178    | 3.74   | < 10   | 0.03   | < 10   | 1.06 | 422    | < 1    | 0.04   |

CERTIFICATION :

*Paul Bachler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8710328

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 1-B  
Tot. Pages: 2  
Date : 27-JAN-87  
Invoice # : I-8710328  
P.O. # : NONE

Project : V 222 RACK H  
Comments : ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|
| 4141               | 221 238   | 17     | 850   | 6      | < 5    | 28     | 0.19 | < 10   | < 10  | 104   | < 5   | 50     |  |  |  |  |  |  |  |
| 4142               | 221 238   | 14     | 810   | 4      | < 5    | 19     | 0.12 | < 10   | < 10  | 108   | < 5   | 44     |  |  |  |  |  |  |  |
| 4143               | 221 238   | 14     | 710   | 2      | < 5    | 46     | 0.11 | < 10   | < 10  | 73    | < 5   | 24     |  |  |  |  |  |  |  |
| 4144               | 221 238   | 20     | 910   | 4      | < 5    | 43     | 0.17 | < 10   | < 10  | 136   | < 5   | 36     |  |  |  |  |  |  |  |
| 4145               | 221 238   | 28     | 730   | 4      | < 5    | 66     | 0.16 | < 10   | < 10  | 55    | < 5   | 32     |  |  |  |  |  |  |  |
| 4146               | 221 238   | 17     | 820   | < 2    | < 5    | 65     | 0.15 | < 10   | < 10  | 63    | < 5   | 18     |  |  |  |  |  |  |  |
| 4147               | 221 238   | 23     | 870   | 2      | < 5    | 95     | 0.16 | < 10   | < 10  | 84    | < 5   | 28     |  |  |  |  |  |  |  |
| 4148               | 221 238   | 21     | 960   | 4      | < 5    | 61     | 0.15 | < 10   | < 10  | 85    | < 5   | 28     |  |  |  |  |  |  |  |
| 4149               | 221 238   | 18     | 980   | 2      | < 5    | 37     | 0.13 | < 10   | < 10  | 90    | < 5   | 32     |  |  |  |  |  |  |  |
| 4150               | 221 238   | 21     | 880   | 2      | < 5    | 27     | 0.12 | < 10   | < 10  | 112   | < 5   | 38     |  |  |  |  |  |  |  |
| 4151               | 221 238   | 9      | 750   | 2      | < 5    | 29     | 0.15 | < 10   | < 10  | 93    | < 5   | 38     |  |  |  |  |  |  |  |
| 4152               | 221 238   | 15     | 830   | 4      | < 5    | 46     | 0.12 | < 10   | < 10  | 174   | < 5   | 58     |  |  |  |  |  |  |  |
| 4153               | 221 238   | 21     | 750   | 2      | < 5    | 15     | 0.09 | < 10   | < 10  | 74    | < 5   | 36     |  |  |  |  |  |  |  |
| 4154               | 221 238   | 23     | 750   | < 2    | < 5    | 17     | 0.12 | < 10   | < 10  | 75    | < 5   | 34     |  |  |  |  |  |  |  |
| 4155               | 221 238   | 17     | 850   | 4      | < 5    | 16     | 0.14 | < 10   | < 10  | 104   | < 5   | 36     |  |  |  |  |  |  |  |
| 4156               | 221 238   | 11     | 770   | 2      | < 5    | 24     | 0.14 | < 10   | < 10  | 173   | < 5   | 40     |  |  |  |  |  |  |  |
| 4157               | 221 238   | 22     | 430   | < 2    | < 5    | 33     | 0.09 | < 10   | < 10  | 189   | < 5   | 62     |  |  |  |  |  |  |  |
| 4158               | 221 238   | 13     | 700   | 4      | < 5    | 27     | 0.13 | < 10   | < 10  | 161   | < 5   | 40     |  |  |  |  |  |  |  |
| 4159               | 221 238   | 25     | 270   | 8      | < 5    | 44     | 0.08 | < 10   | < 10  | 166   | < 5   | 122    |  |  |  |  |  |  |  |
| 4160               | 221 238   | 10     | 680   | < 2    | < 5    | 28     | 0.16 | < 10   | < 10  | 231   | < 5   | 42     |  |  |  |  |  |  |  |
| 4161               | 221 238   | 13     | 770   | 2      | < 5    | 13     | 0.18 | < 10   | < 10  | 148   | < 5   | 38     |  |  |  |  |  |  |  |
| 4162               | 221 238   | 87     | 40    | 18     | < 5    | 3      | 0.02 | < 10   | < 10  | 23    | < 5   | 40     |  |  |  |  |  |  |  |
| 4163               | 221 238   | 13     | 1010  | 2      | < 5    | 13     | 0.14 | < 10   | < 10  | 102   | < 5   | 36     |  |  |  |  |  |  |  |
| 4164               | 221 238   | 15     | 1020  | 2      | < 5    | 15     | 0.13 | < 10   | < 10  | 106   | < 5   | 38     |  |  |  |  |  |  |  |
| 4165               | 221 238   | 33     | 570   | 6      | < 5    | 15     | 0.09 | < 10   | < 10  | 132   | < 5   | 58     |  |  |  |  |  |  |  |
| 4166               | 221 238   | 22     | 840   | 2      | < 5    | 14     | 0.13 | < 10   | < 10  | 184   | < 5   | 52     |  |  |  |  |  |  |  |
| 4167               | 221 238   | 25     | 460   | 6      | < 5    | 34     | 0.06 | < 10   | < 10  | 131   | < 5   | 54     |  |  |  |  |  |  |  |
| 4168               | 221 238   | 27     | 1300  | 4      | < 5    | 58     | 0.10 | < 10   | < 10  | 86    | < 5   | 34     |  |  |  |  |  |  |  |
| 4169               | 221 238   | 23     | 700   | 4      | < 5    | 13     | 0.12 | < 10   | < 10  | 136   | < 5   | 34     |  |  |  |  |  |  |  |
| 4170               | 221 238   | 17     | 430   | 4      | < 5    | 23     | 0.13 | < 10   | < 10  | 180   | < 5   | 40     |  |  |  |  |  |  |  |
| 4171               | 221 238   | 16     | 710   | 2      | < 5    | 15     | 0.18 | < 10   | < 10  | 144   | < 5   | 64     |  |  |  |  |  |  |  |
| 4172               | 221 238   | 28     | 1350  | 2      | < 5    | 66     | 0.09 | < 10   | < 10  | 79    | < 5   | 28     |  |  |  |  |  |  |  |
| 4173               | 221 238   | 19     | 650   | 2      | < 5    | 16     | 0.08 | < 10   | < 10  | 53    | < 5   | 22     |  |  |  |  |  |  |  |
| 4174               | 221 238   | 18     | 950   | 2      | < 5    | 18     | 0.09 | < 10   | < 10  | 43    | < 5   | 26     |  |  |  |  |  |  |  |
| 4175               | 221 238   | 20     | 620   | 4      | < 5    | 19     | 0.13 | < 10   | < 10  | 58    | < 5   | 24     |  |  |  |  |  |  |  |
| 4176               | 221 238   | 22     | 610   | 6      | < 5    | 40     | 0.11 | < 10   | < 10  | 40    | < 5   | 16     |  |  |  |  |  |  |  |
| 4177               | 221 238   | 22     | 690   | 4      | < 5    | 17     | 0.12 | < 10   | < 10  | 76    | < 5   | 22     |  |  |  |  |  |  |  |
| 4178               | 221 238   | 36     | 700   | 4      | < 5    | 17     | 0.11 | < 10   | < 10  | 79    | < 5   | 28     |  |  |  |  |  |  |  |
| 4179               | 221 238   | 25     | 610   | 2      | < 5    | 19     | 0.10 | < 10   | < 10  | 101   | < 5   | 36     |  |  |  |  |  |  |  |
| 4180               | 221 238   | 27     | 620   | 4      | < 5    | 24     | 0.15 | < 10   | < 10  | 101   | < 5   | 38     |  |  |  |  |  |  |  |

CERTIFICATION :

*Paul Buchler*



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## CERTIFICATE OF ANALYSIS A8710328

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 2-A  
Tot. Pages: 2  
Date : 27-JAN-87  
Invoice # : I-8710328  
P.O. # : NONE

Project : V 222 RACK H  
Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na % |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|------|
| 4181               | 221 238   | 2.61 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 5.73 | < 0.5  | 31     | 34     | 193    | 4.51 | 10     | 0.03 | < 10   | 1.31 | 511    | < 1    | 0.03 |
| 4182               | 221 238   | 2.10 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 4.01 | < 0.5  | 21     | 41     | 110    | 3.69 | 10     | 0.03 | < 10   | 1.28 | 465    | < 1    | 0.07 |
| 4183               | 221 238   | 1.70 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 3.83 | < 0.5  | 13     | 36     | 102    | 1.92 | 10     | 0.03 | < 10   | 0.70 | 287    | < 1    | 0.05 |
| 4184               | 221 238   | 1.87 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.53 | < 0.5  | 30     | 36     | 218    | 2.80 | < 10   | 0.03 | < 10   | 0.82 | 286    | < 1    | 0.09 |
| 4185               | 221 238   | 1.94 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 9.08 | < 0.5  | 12     | 17     | 81     | 1.41 | 20     | 0.01 | < 10   | 0.40 | 206    | < 1    | 0.02 |

CERTIFICATION :

*Paul Buchler*



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## CERTIFICATE OF ANALYSIS A8710328

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 2-B

Tot. Pages: 2

Date : 27-JAN-87

Invoice # : I-8710328

P.O. # : NONE

Project : V 222 RACK H

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|
| 4181               | 221 238   | 30     | 510   | < 2    | < 5    | 34     | 0.19 | < 10   | < 10  | 124   | < 5   | 44     |  |  |  |  |  |  |
| 4182               | 221 238   | 25     | 460   | < 2    | < 5    | 45     | 0.16 | < 10   | < 10  | 142   | < 5   | 36     |  |  |  |  |  |  |
| 4183               | 221 238   | 18     | 360   | < 2    | < 5    | 25     | 0.13 | < 10   | < 10  | 70    | < 5   | 22     |  |  |  |  |  |  |
| 4184               | 221 238   | 24     | 420   | 2      | < 5    | 29     | 0.14 | < 10   | < 10  | 73    | < 5   | 32     |  |  |  |  |  |  |
| 4185               | 221 238   | 13     | 290   | 2      | < 5    | 16     | 0.08 | < 10   | < 10  | 61    | < 5   | 20     |  |  |  |  |  |  |

CERTIFICATION :

*Hartl Seidler*



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## CERTIFICATE OF ANALYSIS A8710323

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 2-A  
Tot. Pages: 3  
Date : 26-JAN-87  
Invoice #: I-8710323  
P.O. #: NONE

Project : V 222 RACK D  
Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %    | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|
| 4207               | 221 238   | 2.18 | < 0.2  | < 5    | 70     | < 0.5  | 2      | 1.14 | < 0.5  | 14     | 66     | 84     | 3.43 | < 10   | 0.32   | < 10   | 0.96 | 513    | < 1    | 0.14   |
| 4208               | 221 238   | 0.39 | < 0.2  | 190    | < 10   | < 0.5  | 2      | 0.56 | < 0.5  | 74     | 201    | 227    | 1.34 | < 10   | < 0.01 | < 10   | 0.13 | 165    | < 1    | < 0.01 |
| 4209               | 221 238   | 3.01 | < 0.2  | 5      | 20     | < 0.5  | < 2    | 1.83 | < 0.5  | 14     | 58     | 40     | 3.43 | < 10   | 0.11   | < 10   | 1.01 | 541    | < 1    | 0.24   |
| 4210               | 221 238   | 1.88 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.01 | < 0.5  | 10     | 48     | 44     | 3.56 | < 10   | 0.05   | < 10   | 0.96 | 616    | < 1    | 0.06   |
| 4211               | 221 238   | 2.07 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 1.13 | < 0.5  | 14     | 42     | 69     | 3.58 | < 10   | 0.25   | < 10   | 1.06 | 579    | < 1    | 0.10   |
| 4212               | 221 238   | 2.41 | < 0.2  | 10     | 30     | < 0.5  | < 2    | 1.22 | < 0.5  | 15     | 51     | 77     | 3.87 | < 10   | 0.17   | < 10   | 1.14 | 606    | < 1    | 0.13   |
| 4213               | 221 238   | 2.17 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.35 | < 0.5  | 14     | 41     | 83     | 3.83 | < 10   | 0.09   | < 10   | 1.01 | 614    | < 1    | 0.07   |
| 4214               | 221 238   | 2.04 | < 0.2  | 5      | 10     | < 0.5  | < 2    | 0.73 | < 0.5  | 14     | 39     | 67     | 4.29 | < 10   | 0.05   | 10     | 1.22 | 859    | < 1    | 0.04   |
| 4215               | 221 238   | 1.23 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.36 | < 0.5  | 13     | 33     | 74     | 2.75 | < 10   | 0.08   | < 10   | 0.82 | 599    | < 1    | 0.07   |
| 4216               | 221 238   | 1.54 | < 0.2  | < 5    | 10     | < 0.5  | 2      | 2.31 | < 0.5  | 11     | 30     | 48     | 2.61 | < 10   | 0.06   | < 10   | 0.86 | 644    | < 1    | 0.05   |
| 4217               | 221 238   | 0.80 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 2.10 | < 0.5  | 10     | 35     | 67     | 1.65 | < 10   | 0.06   | < 10   | 0.45 | 389    | < 1    | 0.06   |
| 4218               | 221 238   | 2.43 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 3.04 | < 0.5  | 14     | 33     | 67     | 3.79 | < 10   | 0.04   | < 10   | 1.02 | 660    | < 1    | 0.05   |
| 4219               | 221 238   | 1.35 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.97 | < 0.5  | 5      | 67     | 15     | 1.12 | < 10   | 0.07   | < 10   | 0.30 | 205    | < 1    | 0.08   |
| 4220               | 221 238   | 2.43 | 0.2    | 5      | 70     | < 0.5  | < 2    | 1.51 | < 0.5  | 16     | 26     | 231    | 3.88 | < 10   | 0.58   | < 10   | 0.87 | 477    | < 1    | 0.22   |
| 4221               | 221 238   | 3.59 | 0.2    | 5      | 140    | < 0.5  | < 2    | 2.33 | < 0.5  | 16     | 50     | 148    | 3.92 | < 10   | 0.66   | < 10   | 0.98 | 581    | < 1    | 0.41   |
| 4222               | 221 238   | 3.99 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 3.45 | < 0.5  | 6      | 27     | 18     | 1.39 | 10     | 0.24   | < 10   | 0.32 | 270    | < 1    | 0.41   |
| 4223               | 221 238   | 3.30 | 0.2    | 5      | 40     | < 0.5  | < 2    | 2.93 | < 0.5  | 9      | 30     | 66     | 2.20 | < 10   | 0.25   | < 10   | 0.51 | 415    | < 1    | 0.37   |
| 4224               | 221 238   | 0.98 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.78 | < 0.5  | 8      | 32     | 53     | 1.36 | < 10   | 0.06   | < 10   | 0.27 | 265    | < 1    | 0.05   |
| 4225               | 221 238   | 1.23 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 1.72 | < 0.5  | 17     | 31     | 478    | 2.96 | < 10   | 0.08   | < 10   | 0.40 | 369    | < 1    | 0.06   |
| 4226               | 221 238   | 1.81 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 1.71 | < 0.5  | 12     | 30     | 127    | 2.46 | < 10   | 0.13   | < 10   | 0.47 | 343    | < 1    | 0.19   |
| 4227               | 221 238   | 2.18 | 0.2    | < 5    | 140    | < 0.5  | < 2    | 1.20 | < 0.5  | 21     | 21     | 173    | 4.88 | < 10   | 0.92   | < 10   | 0.97 | 491    | < 1    | 0.13   |
| 4228               | 221 238   | 1.35 | 0.2    | 5      | < 10   | < 0.5  | < 2    | 4.17 | < 0.5  | 11     | 32     | 175    | 1.69 | 10     | 0.06   | < 10   | 0.45 | 393    | < 1    | 0.03   |
| 4229               | 221 238   | 1.76 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 2.22 | < 0.5  | 5      | 38     | 51     | 1.03 | < 10   | 0.07   | < 10   | 0.27 | 238    | < 1    | 0.23   |
| 4230               | 221 238   | 2.71 | < 0.2  | 5      | < 10   | < 0.5  | < 2    | 3.60 | < 0.5  | 11     | 41     | 27     | 2.57 | 10     | 0.06   | < 10   | 0.73 | 545    | < 1    | 0.18   |
| 4231               | 221 238   | 1.10 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.45 | < 0.5  | 8      | 37     | 126    | 1.79 | < 10   | 0.08   | < 10   | 0.44 | 343    | < 1    | 0.11   |
| 4232               | 221 238   | 2.35 | < 0.2  | 5      | < 10   | < 0.5  | < 2    | 3.77 | < 0.5  | 19     | 30     | 179    | 3.38 | 10     | 0.05   | < 10   | 0.77 | 583    | < 1    | 0.04   |
| 4233               | 221 238   | 0.89 | < 0.2  | 5      | 10     | < 0.5  | < 2    | 1.46 | < 0.5  | 8      | 30     | 61     | 1.67 | < 10   | 0.08   | < 10   | 0.45 | 360    | < 1    | 0.07   |
| 4234               | 221 238   | 1.94 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 2.30 | < 0.5  | 11     | 28     | 107    | 2.70 | < 10   | 0.05   | < 10   | 0.70 | 392    | < 1    | 0.15   |
| 4235               | 221 238   | 2.33 | 0.2    | 20     | < 10   | < 0.5  | < 2    | 2.89 | < 0.5  | 17     | 25     | 432    | 3.32 | 10     | 0.05   | < 10   | 0.88 | 520    | < 1    | 0.13   |
| 4236               | 221 238   | 1.34 | 0.2    | < 5    | 10     | < 0.5  | < 2    | 1.64 | < 0.5  | 8      | 23     | 81     | 2.06 | < 10   | 0.05   | < 10   | 0.54 | 317    | < 1    | 0.10   |
| 4237               | 221 238   | 1.09 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 2.74 | < 0.5  | 8      | 25     | 50     | 1.67 | < 10   | 0.06   | < 10   | 0.47 | 389    | < 1    | 0.08   |
| 4238               | 221 238   | 1.45 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 2.06 | < 0.5  | 6      | 27     | 17     | 1.37 | < 10   | 0.07   | < 10   | 0.39 | 326    | < 1    | 0.17   |
| 4239               | 221 238   | 1.73 | 0.4    | 5      | < 10   | < 0.5  | < 2    | 3.10 | < 0.5  | 14     | 33     | 248    | 2.38 | < 10   | 0.06   | < 10   | 0.66 | 487    | < 1    | 0.09   |
| 4240               | 221 238   | 2.42 | < 0.2  | 5      | < 10   | < 0.5  | < 2    | 2.70 | < 0.5  | 7      | 31     | 21     | 1.49 | < 10   | 0.08   | < 10   | 0.42 | 319    | < 1    | 0.26   |
| 4241               | 221 238   | 1.81 | 0.2    | 5      | < 10   | < 0.5  | < 2    | 2.01 | < 0.5  | 13     | 29     | 92     | 2.68 | < 10   | 0.07   | < 10   | 0.72 | 470    | < 1    | 0.18   |
| 4242               | 221 238   | 1.24 | < 0.2  | 5      | 10     | < 0.5  | < 2    | 1.86 | < 0.5  | 11     | 28     | 100    | 2.05 | < 10   | 0.07   | < 10   | 0.53 | 401    | < 1    | 0.11   |
| 4243               | 221 238   | 1.04 | < 0.2  | < 5    | 80     | < 0.5  | < 2    | 2.18 | < 0.5  | 5      | 16     | 3      | 1.54 | 10     | 0.25   | < 10   | 0.42 | 350    | < 1    | 0.03   |
| 4244               | 221 238   | 1.58 | 0.2    | < 5    | 10     | < 0.5  | < 2    | 2.53 | < 0.5  | 11     | 37     | 64     | 2.32 | < 10   | 0.09   | < 10   | 0.68 | 609    | < 1    | 0.10   |
| 4245               | 221 238   | 1.39 | 0.2    | < 5    | 20     | < 0.5  | < 2    | 2.07 | < 0.5  | 10     | 29     | 65     | 2.19 | < 10   | 0.10   | < 10   | 0.61 | 513    | < 1    | 0.09   |
| 4246               | 221 238   | 2.05 | 0.4    | < 5    | 10     | < 0.5  | < 2    | 4.58 | < 0.5  | 14     | 35     | 14     | 3.30 | 10     | 0.09   | < 10   | 1.00 | 728    | < 1    | 0.09   |

CERTIFICATION : B. Cough



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 BRITISH COLUMBIA, CANADA V7J-2C1  
 PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8710323

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 2-B  
 Tot. Pages: 3  
 Date : 26-JAN-87  
 Invoice # : I-8710323  
 P.O. # : NONE

Project : V 222 RACK D  
 Comments : ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|
| 4207               | 221 238   | 10     | 650   | 2      | < 5    | 33     | 0.25 | < 10   | < 10  | 103   | < 5   | 54     |  |  |  |  |  |  |
| 4208               | 221 238   | 39     | 50    | 6      | < 5    | 4      | 0.01 | < 10   | < 10  | 14    | < 5   | 24     |  |  |  |  |  |  |
| 4209               | 221 238   | 8      | 760   | < 2    | < 5    | 45     | 0.27 | < 10   | < 10  | 120   | < 5   | 60     |  |  |  |  |  |  |
| 4210               | 221 238   | 6      | 680   | 2      | < 5    | 15     | 0.28 | < 10   | < 10  | 123   | < 5   | 64     |  |  |  |  |  |  |
| 4211               | 221 238   | 9      | 570   | 2      | < 5    | 23     | 0.22 | < 10   | < 10  | 117   | < 5   | 66     |  |  |  |  |  |  |
| 4212               | 221 238   | 8      | 590   | 2      | < 5    | 31     | 0.24 | < 10   | < 10  | 132   | < 5   | 74     |  |  |  |  |  |  |
| 4213               | 221 238   | 9      | 530   | 2      | < 5    | 22     | 0.20 | < 10   | < 10  | 122   | < 5   | 58     |  |  |  |  |  |  |
| 4214               | 221 238   | 10     | 960   | 4      | < 5    | 18     | 0.26 | < 10   | < 10  | 133   | < 5   | 76     |  |  |  |  |  |  |
| 4215               | 221 238   | 8      | 1030  | 8      | < 5    | 21     | 0.19 | < 10   | < 10  | 96    | < 5   | 42     |  |  |  |  |  |  |
| 4216               | 221 238   | 7      | 900   | 2      | < 5    | 24     | 0.18 | < 10   | < 10  | 83    | < 5   | 44     |  |  |  |  |  |  |
| 4217               | 221 238   | 8      | 900   | 6      | < 5    | 24     | 0.16 | < 10   | < 10  | 56    | < 5   | 26     |  |  |  |  |  |  |
| 4218               | 221 238   | 8      | 940   | 2      | < 5    | 23     | 0.14 | < 10   | < 10  | 108   | < 5   | 62     |  |  |  |  |  |  |
| 4219               | 221 238   | 3      | 860   | 4      | < 5    | 46     | 0.11 | < 10   | < 10  | 24    | < 5   | 28     |  |  |  |  |  |  |
| 4220               | 221 238   | 6      | 1580  | < 2    | < 5    | 49     | 0.23 | < 10   | < 10  | 94    | < 5   | 66     |  |  |  |  |  |  |
| 4221               | 221 238   | 9      | 1720  | 4      | < 5    | 90     | 0.23 | < 10   | < 10  | 126   | < 5   | 76     |  |  |  |  |  |  |
| 4222               | 221 238   | 3      | 1850  | 2      | < 5    | 165    | 0.15 | < 10   | < 10  | 38    | < 5   | 24     |  |  |  |  |  |  |
| 4223               | 221 238   | 6      | 1540  | < 2    | < 5    | 94     | 0.17 | < 10   | < 10  | 63    | < 5   | 34     |  |  |  |  |  |  |
| 4224               | 221 238   | 6      | 1220  | 4      | < 5    | 37     | 0.13 | < 10   | < 10  | 36    | < 5   | 30     |  |  |  |  |  |  |
| 4225               | 221 238   | 10     | 1220  | 2      | < 5    | 27     | 0.13 | < 10   | < 10  | 53    | < 5   | 68     |  |  |  |  |  |  |
| 4226               | 221 238   | 15     | 1440  | 2      | < 5    | 78     | 0.16 | < 10   | < 10  | 54    | < 5   | 36     |  |  |  |  |  |  |
| 4227               | 221 238   | 5      | 2210  | 4      | < 5    | 35     | 0.27 | < 10   | < 10  | 97    | < 5   | 70     |  |  |  |  |  |  |
| 4228               | 221 238   | 36     | 1130  | 2      | < 5    | 52     | 0.12 | < 10   | < 10  | 46    | < 5   | 94     |  |  |  |  |  |  |
| 4229               | 221 238   | 5      | 970   | 2      | < 5    | 122    | 0.11 | < 10   | < 10  | 36    | < 5   | 18     |  |  |  |  |  |  |
| 4230               | 221 238   | 8      | 1040  | 2      | < 5    | 128    | 0.13 | < 10   | < 10  | 70    | < 5   | 44     |  |  |  |  |  |  |
| 4231               | 221 238   | 4      | 1240  | 2      | < 5    | 34     | 0.15 | < 10   | < 10  | 59    | < 5   | 34     |  |  |  |  |  |  |
| 4232               | 221 238   | 7      | 1180  | < 2    | < 5    | 26     | 0.15 | < 10   | < 10  | 82    | < 5   | 64     |  |  |  |  |  |  |
| 4233               | 221 238   | 5      | 1340  | < 2    | < 5    | 25     | 0.15 | < 10   | < 10  | 55    | < 5   | 28     |  |  |  |  |  |  |
| 4234               | 221 238   | 5      | 1880  | < 2    | < 5    | 47     | 0.17 | < 10   | < 10  | 64    | < 5   | 58     |  |  |  |  |  |  |
| 4235               | 221 238   | 7      | 1730  | 2      | < 5    | 48     | 0.14 | < 10   | < 10  | 73    | < 5   | 74     |  |  |  |  |  |  |
| 4236               | 221 238   | 4      | 1520  | 2      | < 5    | 30     | 0.16 | < 10   | < 10  | 52    | < 5   | 36     |  |  |  |  |  |  |
| 4237               | 221 238   | 5      | 890   | 4      | < 5    | 29     | 0.14 | < 10   | < 10  | 47    | < 5   | 36     |  |  |  |  |  |  |
| 4238               | 221 238   | 6      | 1070  | 2      | < 5    | 66     | 0.11 | < 10   | < 10  | 43    | < 5   | 26     |  |  |  |  |  |  |
| 4239               | 221 238   | 9      | 1120  | 2      | < 5    | 42     | 0.15 | < 10   | < 10  | 81    | < 5   | 56     |  |  |  |  |  |  |
| 4240               | 221 238   | 4      | 1170  | 2      | < 5    | 125    | 0.13 | < 10   | < 10  | 53    | < 5   | 26     |  |  |  |  |  |  |
| 4241               | 221 238   | 9      | 1310  | 4      | < 5    | 68     | 0.18 | < 10   | < 10  | 83    | < 5   | 48     |  |  |  |  |  |  |
| 4242               | 221 238   | 7      | 1260  | 2      | < 5    | 44     | 0.16 | < 10   | < 10  | 68    | < 5   | 34     |  |  |  |  |  |  |
| 4243               | 221 238   | 2      | 540   | 4      | < 5    | 53     | 0.04 | < 10   | < 10  | 18    | < 5   | 24     |  |  |  |  |  |  |
| 4244               | 221 238   | 6      | 1310  | 4      | < 5    | 74     | 0.17 | < 10   | < 10  | 75    | < 5   | 40     |  |  |  |  |  |  |
| 4245               | 221 238   | 12     | 1150  | 2      | < 5    | 46     | 0.14 | < 10   | < 10  | 64    | < 5   | 38     |  |  |  |  |  |  |
| 4246               | 221 238   | 8      | 1220  | 2      | < 5    | 62     | 0.24 | < 10   | < 10  | 106   | < 5   | 62     |  |  |  |  |  |  |

CERTIFICATION : B. Cough



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PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8710323

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 3-A  
Tot. Pages: 3  
Date : 26-JAN-87  
Invoice #: I-8710323  
P.O. #: NONE

Project : V 222 RACK D  
Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na % |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|------|
| 4247               | 221 238   | 1.32 | < 0.2  | < 5    | < 10   | < 0.5  | < 2    | 1.91 | < 0.5  | 11     | 36     | 41     | 1.87 | < 10   | 0.06 | < 10   | 0.49 | 435    | < 1    | 0.08 |
| 4248               | 221 238   | 2.74 | 0.2    | < 5    | 160    | < 0.5  | < 2    | 1.24 | < 0.5  | 17     | 31     | 164    | 5.01 | < 10   | 0.98 | 10     | 1.46 | 626    | < 1    | 0.11 |
| 4249               | 221 238   | 2.77 | < 0.2  | < 5    | 120    | < 0.5  | < 2    | 1.95 | < 0.5  | 15     | 37     | 130    | 4.01 | < 10   | 0.64 | < 10   | 1.07 | 548    | < 1    | 0.25 |
| 4250               | 221 238   | 1.97 | 0.2    | < 5    | 190    | < 0.5  | < 2    | 1.10 | < 0.5  | 16     | 26     | 107    | 4.01 | < 10   | 0.84 | 10     | 1.03 | 619    | < 1    | 0.10 |

CERTIFICATION : B. Cough



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## CERTIFICATE OF ANALYSIS A8710323

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 3-B  
Tot. Pages: 3  
Date : 26-JAN-87  
Invoice # : I-8710323  
P.O. # : NONE

Project : V 222 RACK D  
Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|
| 4247               | 221 238   | 6      | 1210  | 2      | < 5    | 51     | 0.13 | < 10   | < 10  | 53    | < 5   | 36     |  |  |  |  |  |  |  |
| 4248               | 221 238   | 9      | 1200  | 4      | < 5    | 30     | 0.33 | < 10   | < 10  | 170   | < 5   | 88     |  |  |  |  |  |  |  |
| 4249               | 221 238   | 9      | 830   | 4      | < 5    | 95     | 0.20 | < 10   | < 10  | 109   | 25    | 66     |  |  |  |  |  |  |  |
| 4250               | 221 238   | 10     | 1360  | 2      | < 5    | 25     | 0.29 | < 10   | < 10  | 122   | < 5   | 70     |  |  |  |  |  |  |  |

CERTIFICATION : B. Campbell





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## CERTIFICATE OF ANALYSIS A8621500

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 1-A

Tot. Pages: 6

Date : 17-DEC-86

Invoice #: I-8621500

P.O. #: NONE

Project : V222 RACKS Q & R

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe %    | Ga ppm | K %    | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|---------|--------|--------|--------|------|--------|--------|--------|
| 14029              | 221       | 2.27 | 0.2    | 5      | 50     | < 0.5  | < 2    | 0.71 | < 0.5  | 18     | 48     | 74     | 4.58    | 10     | 0.24   | < 10   | 1.30 | 1510   | < 1    | 0.03   |
| 14030              | 221       | 2.66 | 0.2    | 35     | 50     | < 0.5  | < 2    | 0.43 | < 0.5  | 15     | 45     | 59     | 5.12    | 10     | 0.17   | < 10   | 1.21 | 958    | < 1    | 0.01   |
| 14031              | 221       | 1.71 | 0.2    | < 5    | 10     | < 0.5  | < 2    | 1.07 | < 0.5  | 38     | 54     | 325    | 4.45    | < 10   | 0.05   | < 10   | 0.64 | 470    | < 1    | 0.03   |
| 14032              | 221       | 0.07 | 0.2    | < 5    | 10     | < 0.5  | < 2    | 1.27 | < 0.5  | 2      | 118    | 30     | 1.67    | < 10   | < 0.01 | < 10   | 0.03 | 230    | 1      | < 0.01 |
| 14033              | 221       | 1.89 | 1.6    | < 5    | 90     | < 0.5  | < 2    | 1.11 | < 0.5  | 8      | 103    | 109    | 2.38    | 10     | 0.14   | < 10   | 0.58 | 342    | < 1    | 0.10   |
| 14034              | 221       | 1.90 | 1.2    | < 5    | 60     | < 0.5  | < 2    | 0.85 | 0.5    | 28     | 97     | 523    | 5.77    | 10     | 0.16   | < 10   | 0.42 | 245    | < 1    | 0.06   |
| 14035              | 221       | 2.06 | 0.6    | < 5    | < 10   | < 0.5  | < 2    | 2.24 | 0.5    | 30     | 78     | 1265   | 3.24    | 10     | < 0.01 | < 10   | 0.35 | 335    | 6      | 0.01   |
| 14036              | 221       | 1.52 | 0.4    | < 5    | < 10   | < 0.5  | < 2    | 1.54 | < 0.5  | 11     | 48     | 170    | 2.66    | 10     | 0.05   | 10     | 0.48 | 322    | 5      | 0.05   |
| 14037              | 221       | 3.33 | 0.4    | < 5    | 70     | < 0.5  | < 2    | 1.66 | 0.5    | 31     | 83     | 670    | 4.39    | 10     | 0.29   | < 10   | 0.67 | 295    | 2      | 0.37   |
| 14038              | 221       | 4.83 | 0.2    | < 5    | 20     | < 0.5  | < 2    | 3.40 | 0.5    | 14     | 87     | 181    | 3.49    | 10     | 0.37   | < 10   | 0.37 | 431    | < 1    | 0.57   |
| 14039              | 221       | 4.37 | 0.2    | < 5    | 410    | < 0.5  | < 2    | 1.61 | 0.5    | 13     | 66     | 105    | 4.51    | 20     | 1.10   | < 10   | 1.16 | 515    | < 1    | 0.46   |
| 14040              | 221       | 0.32 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 0.27 | < 0.5  | 3      | 151    | 27     | 1.36    | < 10   | < 0.01 | < 10   | 0.06 | 536    | < 1    | < 0.01 |
| 14041              | 221       | 0.90 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 1.13 | < 0.5  | 5      | 30     | 332    | 1.85    | < 10   | 0.03   | 10     | 0.21 | 209    | < 1    | 0.06   |
| 14042              | 221       | 3.44 | 0.2    | < 5    | 90     | < 0.5  | < 2    | 2.24 | < 0.5  | 29     | 54     | 1020   | 3.46    | 10     | 0.21   | < 10   | 0.56 | 179    | < 1    | 0.27   |
| 14043              | 221       | 1.11 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 1.25 | < 0.5  | 5      | 60     | 520    | 1.19    | < 10   | 0.02   | < 10   | 0.22 | 158    | < 1    | 0.01   |
| 14044              | 221       | 3.09 | 0.2    | < 5    | 60     | < 0.5  | < 2    | 1.97 | < 0.5  | 38     | 57     | 657    | 4.15    | 10     | 0.16   | < 10   | 0.67 | 347    | < 1    | 0.25   |
| 14045              | 221       | 0.30 | 1.0    | 1700   | < 10   | < 0.5  | < 2    | 0.35 | < 0.5  | 6      | 124    | 605    | 2.88    | < 10   | 0.01   | < 10   | 0.07 | 167    | < 1    | 0.01   |
| 14046              | 221       | 1.85 | 0.2    | 880    | 10     | < 0.5  | < 2    | 1.25 | < 0.5  | 12     | 134    | 679    | 2.74    | < 10   | 0.04   | < 10   | 0.18 | 163    | < 1    | 0.21   |
| 14056              | 221       | 1.72 | 0.2    | < 5    | 80     | < 0.5  | < 2    | 0.46 | 0.5    | 14     | 33     | 72     | 5.22    | < 10   | 0.22   | 10     | 0.81 | 371    | 3      | 0.02   |
| 14057              | 221       | 2.06 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 2.15 | 0.5    | 15     | 78     | 92     | 5.14    | 10     | 0.06   | < 10   | 0.24 | 375    | 1      | 0.14   |
| 14058              | 221       | 3.93 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 4.18 | < 0.5  | 12     | 61     | 7      | 2.72    | 10     | 0.01   | < 10   | 0.65 | 477    | < 1    | < 0.01 |
| 14059              | 221       | 2.30 | 0.2    | < 5    | < 10   | < 0.5  | < 2    | 2.63 | < 0.5  | 13     | 122    | 79     | 1.73    | < 10   | < 0.01 | < 10   | 0.35 | 286    | < 1    | < 0.01 |
| 14060              | 221       | 2.31 | 0.2    | < 5    | 10     | < 0.5  | < 2    | 1.77 | 1.0    | 65     | 20     | 633    | > 15.00 | < 10   | 0.11   | 10     | 0.84 | 418    | < 1    | < 0.01 |
| 14061              | 221       | 2.22 | 0.2    | < 5    | 20     | < 0.5  | 6      | 1.15 | 0.5    | 9      | 87     | 189    | 3.94    | 10     | 0.12   | 10     | 0.79 | 270    | < 1    | 0.10   |
| 14062              | 221       | 1.01 | 0.2    | < 5    | 50     | < 0.5  | 2      | 0.05 | 0.5    | 9      | 31     | 306    | 6.60    | < 10   | 0.23   | < 10   | 0.27 | 150    | < 1    | 0.02   |
| 14063              | 221       | 1.84 | 0.2    | < 5    | 40     | < 0.5  | 2      | 0.27 | < 0.5  | 9      | 48     | 192    | 6.72    | 10     | 0.28   | < 10   | 0.61 | 177    | 1      | 0.01   |
| 14068              | 221       | 5.37 | 0.2    | < 5    | 120    | < 0.5  | < 2    | 2.62 | < 0.5  | 16     | 59     | 107    | 4.25    | 20     | 0.85   | < 10   | 1.08 | 547    | < 1    | 0.44   |
| 14069              | 221       | 0.34 | 0.6    | 210    | < 10   | < 0.5  | 20     | 0.25 | < 0.5  | 15     | 183    | 795    | 4.44    | < 10   | 0.01   | < 10   | 0.08 | 202    | < 1    | 0.01   |
| 14070              | 221       | 6.46 | 0.2    | < 5    | 210    | < 0.5  | < 2    | 3.03 | 0.5    | 15     | 40     | 178    | 4.72    | 20     | 1.24   | < 10   | 1.31 | 593    | < 1    | 0.40   |
| 14071              | 221       | 5.72 | 0.2    | < 5    | 210    | < 0.5  | < 2    | 2.65 | 1.5    | 14     | 73     | 51     | 4.41    | 20     | 0.95   | < 10   | 1.34 | 593    | < 1    | 0.43   |
| 14072              | 221       | 0.16 | 2.0    | 385    | < 10   | < 0.5  | 56     | 0.15 | < 0.5  | 18     | 119    | 910    | 3.86    | < 10   | < 0.01 | < 10   | 0.04 | 109    | < 1    | < 0.01 |
| 14073              | 221       | 4.46 | 0.2    | 5      | 110    | < 0.5  | < 2    | 2.05 | < 0.5  | 14     | 40     | 98     | 4.63    | 20     | 0.59   | < 10   | 1.23 | 579    | < 1    | 0.24   |
| 14074              | 221       | 4.55 | 0.2    | < 5    | 140    | < 0.5  | < 2    | 2.49 | < 0.5  | 12     | 68     | 104    | 3.50    | 20     | 0.52   | < 10   | 0.94 | 516    | < 1    | 0.43   |
| 14075              | 221       | 0.43 | 3.6    | 165    | 10     | < 0.5  | 50     | 0.05 | < 0.5  | 14     | 153    | 1025   | 4.64    | < 10   | 0.04   | < 10   | 0.06 | 79     | < 1    | < 0.01 |
| 14076              | 221       | 4.52 | 0.2    | < 5    | 110    | < 0.5  | 2      | 2.69 | 0.5    | 12     | 51     | 69     | 3.90    | 20     | 0.50   | < 10   | 0.97 | 588    | < 1    | 0.44   |
| 14077              | 221       | 5.36 | 0.2    | 15     | 120    | < 0.5  | 2      | 3.07 | < 0.5  | 14     | 36     | 248    | 4.38    | 20     | 0.62   | < 10   | 1.05 | 602    | < 1    | 0.29   |
| 14078              | 221       | 0.97 | 7.2    | 115    | 10     | < 0.5  | 182    | 0.28 | < 0.5  | 34     | 91     | 1385   | 7.43    | < 10   | 0.05   | < 10   | 0.18 | 166    | < 1    | 0.03   |
| 14079              | 221       | 4.42 | 0.2    | 10     | 120    | < 0.5  | 2      | 2.30 | < 0.5  | 15     | 53     | 117    | 4.55    | 20     | 0.64   | < 10   | 1.20 | 588    | < 1    | 0.28   |
| 14080              | 221       | 4.13 | 0.2    | 5      | 70     | < 0.5  | < 2    | 2.26 | < 0.5  | 11     | 55     | 137    | 3.53    | 20     | 0.42   | < 10   | 0.99 | 519    | < 1    | 0.30   |
| 14081              | 221       | 0.70 | 2.4    | 220    | 20     | < 0.5  | 78     | 0.18 | < 0.5  | 16     | 126    | 772    | 5.36    | < 10   | 0.08   | < 10   | 0.11 | 141    | < 1    | 0.02   |

CERTIFICATION :

*Hart Bickler*

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# Chemex Labs Ltd.

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## CERTIFICATE OF ANALYSIS A8621500

To : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 1-B  
Tot. Pages: 6  
Date : 17-DEC-86  
Invoice # : I-8621500  
P.O. # : NONE

Project : V222 RACKS Q & R  
Comments : ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %   | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|
| 14029              | 221       | 10     | 810   | 4      | < 5    | 24     | 0.17   | < 10   | < 10  | 97    | < 5   | 88     |  |  |  |  |  |  |  |  |
| 14030              | 221       | 12     | 900   | 6      | < 5    | 5      | 0.13   | < 10   | < 10  | 82    | < 5   | 44     |  |  |  |  |  |  |  |  |
| 14031              | 221       | 14     | 570   | 2      | < 5    | 7      | 0.08   | < 10   | < 10  | 67    | < 5   | 44     |  |  |  |  |  |  |  |  |
| 14032              | 221       | 4      | 120   | < 2    | < 5    | < 1    | < 0.01 | < 10   | < 10  | 8     | < 5   | 6      |  |  |  |  |  |  |  |  |
| 14033              | 221       | 8      | 370   | 2      | < 5    | 30     | 0.13   | < 10   | < 10  | 67    | < 5   | 32     |  |  |  |  |  |  |  |  |
| 14034              | 221       | 13     | 510   | 2      | < 5    | 83     | 0.15   | < 10   | < 10  | 63    | < 5   | 44     |  |  |  |  |  |  |  |  |
| 14035              | 221       | 15     | 1000  | 2      | < 5    | 39     | 0.13   | < 10   | < 10  | 38    | < 5   | 60     |  |  |  |  |  |  |  |  |
| 14036              | 221       | 11     | 1500  | 2      | < 5    | 15     | 0.18   | < 10   | < 10  | 68    | < 5   | 40     |  |  |  |  |  |  |  |  |
| 14037              | 221       | 12     | 490   | < 2    | < 5    | 83     | 0.19   | < 10   | < 10  | 87    | < 5   | 40     |  |  |  |  |  |  |  |  |
| 14038              | 221       | 9      | 1000  | 2      | < 5    | 67     | 0.23   | < 10   | < 10  | 96    | < 5   | 44     |  |  |  |  |  |  |  |  |
| 14039              | 221       | 11     | 950   | 2      | < 5    | 142    | 0.23   | < 10   | < 10  | 145   | < 5   | 70     |  |  |  |  |  |  |  |  |
| 14040              | 221       | 3      | 120   | 2      | < 5    | 1      | 0.02   | < 10   | < 10  | 12    | < 5   | 164    |  |  |  |  |  |  |  |  |
| 14041              | 221       | 3      | 1300  | < 2    | < 5    | 14     | 0.08   | < 10   | < 10  | 23    | < 5   | 16     |  |  |  |  |  |  |  |  |
| 14042              | 221       | 9      | 940   | 2      | < 5    | 57     | 0.10   | < 10   | < 10  | 61    | < 5   | 42     |  |  |  |  |  |  |  |  |
| 14043              | 221       | 4      | 860   | 2      | < 5    | 47     | 0.11   | < 10   | < 10  | 23    | < 5   | 20     |  |  |  |  |  |  |  |  |
| 14044              | 221       | 16     | 1250  | 2      | < 5    | 64     | 0.12   | < 10   | < 10  | 64    | < 5   | 32     |  |  |  |  |  |  |  |  |
| 14045              | 221       | 3      | 200   | 18     | < 5    | 6      | 0.01   | < 10   | < 10  | 10    | < 5   | 24     |  |  |  |  |  |  |  |  |
| 14046              | 221       | 13     | 560   | 8      | < 5    | 30     | 0.05   | < 10   | < 10  | 28    | 10    | 26     |  |  |  |  |  |  |  |  |
| 14056              | 221       | 15     | 760   | 2      | < 5    | 6      | < 0.01 | < 10   | < 10  | 45    | < 5   | 76     |  |  |  |  |  |  |  |  |
| 14057              | 221       | 13     | 1280  | 2      | < 5    | 51     | 0.25   | < 10   | < 10  | 92    | < 5   | 34     |  |  |  |  |  |  |  |  |
| 14058              | 221       | 3      | 650   | < 2    | < 5    | < 1    | 0.09   | < 10   | < 10  | 51    | < 5   | 12     |  |  |  |  |  |  |  |  |
| 14059              | 221       | 11     | 840   | 2      | < 5    | < 1    | 0.07   | < 10   | < 10  | 56    | < 5   | 74     |  |  |  |  |  |  |  |  |
| 14060              | 221       | 8      | 8010  | 4      | < 5    | 1      | 0.04   | < 10   | < 10  | 70    | < 5   | 34     |  |  |  |  |  |  |  |  |
| 14061              | 221       | 7      | 1020  | 2      | < 5    | 46     | 0.16   | < 10   | < 10  | 75    | < 5   | 28     |  |  |  |  |  |  |  |  |
| 14062              | 221       | 6      | 340   | 12     | < 5    | 5      | 0.01   | < 10   | < 10  | 35    | < 5   | 28     |  |  |  |  |  |  |  |  |
| 14063              | 221       | 7      | 510   | 10     | < 5    | 13     | 0.14   | < 10   | < 10  | 38    | < 5   | 32     |  |  |  |  |  |  |  |  |
| 14068              | 221       | 11     | 730   | < 2    | < 5    | 104    | 0.26   | < 10   | < 10  | 125   | < 5   | 56     |  |  |  |  |  |  |  |  |
| 14069              | 221       | 4      | 50    | 8      | < 5    | 3      | 0.01   | < 10   | < 10  | 10    | < 5   | 20     |  |  |  |  |  |  |  |  |
| 14070              | 221       | 8      | 750   | 2      | < 5    | 89     | 0.33   | < 10   | < 10  | 151   | < 5   | 60     |  |  |  |  |  |  |  |  |
| 14071              | 221       | 12     | 1740  | < 2    | < 5    | 81     | 0.31   | < 10   | < 10  | 138   | < 5   | 74     |  |  |  |  |  |  |  |  |
| 14072              | 221       | 3      | 70    | 8      | < 5    | 2      | < 0.01 | < 10   | < 10  | 5     | < 5   | 22     |  |  |  |  |  |  |  |  |
| 14073              | 221       | 11     | 830   | 4      | < 5    | 58     | 0.28   | < 10   | < 10  | 129   | < 5   | 58     |  |  |  |  |  |  |  |  |
| 14074              | 221       | 10     | 960   | 2      | < 5    | 103    | 0.28   | < 10   | < 10  | 140   | < 5   | 60     |  |  |  |  |  |  |  |  |
| 14075              | 221       | 8      | 90    | 8      | < 5    | 2      | 0.02   | < 10   | < 10  | 16    | < 5   | 22     |  |  |  |  |  |  |  |  |
| 14076              | 221       | 9      | 640   | < 2    | < 5    | 120    | 0.25   | < 10   | < 10  | 102   | < 5   | 54     |  |  |  |  |  |  |  |  |
| 14077              | 221       | 9      | 1970  | < 2    | < 5    | 97     | 0.32   | < 10   | < 10  | 134   | < 5   | 52     |  |  |  |  |  |  |  |  |
| 14078              | 221       | 6      | 280   | 22     | < 5    | 11     | 0.06   | < 10   | < 10  | 33    | < 5   | 30     |  |  |  |  |  |  |  |  |
| 14079              | 221       | 11     | 1000  | 4      | < 5    | 64     | 0.31   | < 10   | < 10  | 145   | < 5   | 62     |  |  |  |  |  |  |  |  |
| 14080              | 221       | 10     | 940   | 2      | < 5    | 63     | 0.28   | < 10   | < 10  | 151   | < 5   | 58     |  |  |  |  |  |  |  |  |
| 14081              | 221       | 5      | 250   | 8      | < 5    | 8      | 0.05   | < 10   | < 10  | 34    | < 5   | 18     |  |  |  |  |  |  |  |  |

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CERTIFICATION :

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## CERTIFICATE OF ANALYSIS A8621500

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 2-A

Tot. Pages: 6

Date : 17-DEC-86

Invoice #: I-8621500

P.O. #: NONE

Project : V222 RACKS Q & R

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|--------|
| 14082              | 221       | 5.93 | 0.2    | < 5    | 160    | < 0.5  | < 2    | 3.28 | < 0.5  | 18     | 41     | 350    | 5.55 | 30     | 0.61 | < 10   | 1.32 | 737    | < 1    | 0.38   |
| 14083              | 221       | 4.25 | 0.2    | < 5    | 80     | < 0.5  | < 2    | 2.00 | < 0.5  | 14     | 55     | 107    | 4.46 | 20     | 0.50 | 10     | 1.21 | 665    | 3      | 0.37   |
| 14084              | 221       | 1.22 | 1.4    | 60     | 20     | < 0.5  | 32     | 0.55 | 0.5    | 15     | 131    | 547    | 4.77 | < 10   | 0.08 | < 10   | 0.16 | 263    | < 1    | 0.09   |
| 14085              | 221       | 5.74 | 0.2    | 10     | 150    | < 0.5  | < 2    | 2.94 | 0.5    | 14     | 60     | 259    | 4.66 | 20     | 0.83 | < 10   | 1.11 | 660    | < 1    | 0.51   |
| 14086              | 221       | 6.10 | 0.2    | < 5    | 250    | < 0.5  | < 2    | 3.05 | 0.5    | 14     | 57     | 133    | 5.12 | 30     | 0.93 | < 10   | 1.35 | 819    | < 1    | 0.58   |
| 14087              | 221       | 1.68 | 0.8    | 1065   | 30     | < 0.5  | 16     | 0.62 | 0.5    | 42     | 160    | 1205   | 6.59 | < 10   | 0.15 | < 10   | 0.28 | 187    | 3      | 0.10   |
| 14088              | 221       | 5.70 | 0.2    | < 5    | 140    | < 0.5  | < 2    | 2.65 | 0.5    | 13     | 45     | 199    | 5.37 | 30     | 0.84 | < 10   | 1.45 | 925    | < 1    | 0.38   |
| 14089              | 221       | 0.86 | 0.2    | 125    | 40     | < 0.5  | 16     | 0.15 | < 0.5  | 6      | 152    | 243    | 4.20 | 10     | 0.22 | < 10   | 0.10 | 99     | < 1    | 0.02   |
| 14090              | 221       | 4.23 | 0.2    | 5      | 80     | < 0.5  | < 2    | 1.67 | < 0.5  | 14     | 34     | 136    | 4.85 | 30     | 0.39 | 10     | 1.31 | 787    | < 1    | 0.22   |
| 14091              | 221       | 1.77 | 0.2    | 15     | 20     | < 0.5  | < 2    | 0.41 | 1.0    | 54     | 114    | 2170   | 9.62 | 10     | 0.16 | < 10   | 0.30 | 301    | < 1    | 0.06   |
| 14092              | 221       | 2.44 | 0.2    | < 5    | 40     | < 0.5  | < 2    | 1.38 | < 0.5  | 5      | 83     | 462    | 2.71 | 10     | 0.23 | 10     | 0.34 | 304    | < 1    | 0.28   |
| 14093              | 221       | 7.16 | 0.2    | 25     | 180    | < 0.5  | < 2    | 2.23 | 1.0    | 21     | 38     | 533    | 6.02 | 20     | 0.22 | 10     | 0.92 | 1355   | < 1    | 0.01   |
| N-12 #1            | 221       | 3.15 | 0.2    | < 5    | 170    | < 0.5  | < 2    | 0.92 | 0.5    | 28     | 1205   | 71     | 4.18 | 20     | 0.11 | 10     | 0.87 | 1170   | 1      | 0.07   |
| N-12 #2            | 221       | 2.86 | 0.2    | 5      | 110    | < 0.5  | < 2    | 1.66 | 0.5    | 18     | 654    | 76     | 3.40 | 10     | 0.10 | 10     | 0.65 | 1170   | < 1    | 0.06   |
| N-12 #3            | 221       | 3.25 | 0.2    | 20     | 150    | < 0.5  | < 2    | 1.23 | 0.5    | 27     | 551    | 71     | 3.28 | 10     | 0.06 | 30     | 0.54 | 1605   | < 1    | 0.04   |
| N-15 #1            | 221       | 3.48 | 0.8    | 5      | 100    | < 0.5  | < 2    | 1.16 | 2.5    | 26     | 1080   | 133    | 4.44 | 20     | 0.07 | 20     | 0.81 | 729    | < 1    | 0.07   |
| N-15 #2            | 221       | 2.73 | 0.2    | 15     | 110    | < 0.5  | < 2    | 0.96 | 0.5    | 20     | 465    | 94     | 3.58 | 10     | 0.09 | 20     | 0.64 | 711    | < 1    | 0.04   |
| LOW 3+00N          | 221       | 1.91 | 0.2    | < 5    | 70     | < 0.5  | < 2    | 0.62 | 0.5    | 53     | 14     | 37     | 2.89 | 30     | 0.06 | 20     | 0.33 | 1230   | < 1    | 0.02   |
| LOW 2+75N          | 221       | 0.10 | 0.2    | < 5    | 40     | < 0.5  | < 2    | 0.36 | < 0.5  | 3      | 3      | 6      | 0.10 | < 10   | 0.06 | < 10   | 0.07 | 46     | < 1    | 0.01   |
| LOW 2+50N          | 221       | 2.82 | 0.2    | < 5    | 60     | < 0.5  | < 2    | 0.37 | < 0.5  | 8      | 18     | 58     | 4.34 | 40     | 0.07 | 10     | 0.65 | 438    | < 1    | 0.01   |
| LOW 2+25N          | 221       | 2.76 | 0.2    | < 5    | 50     | < 0.5  | < 2    | 0.24 | < 0.5  | 6      | 20     | 65     | 4.15 | 30     | 0.04 | 10     | 0.38 | 369    | < 1    | 0.01   |
| LOW 2+00N          | 221       | 3.15 | 0.2    | < 5    | 60     | < 0.5  | < 2    | 0.34 | 0.5    | 19     | 15     | 80     | 5.18 | 30     | 0.06 | 10     | 0.54 | 2280   | < 1    | 0.01   |
| LOW 1+75N          | 221       | 3.69 | 0.2    | < 5    | 50     | < 0.5  | < 2    | 0.34 | 0.5    | 18     | 17     | 93     | 6.58 | 40     | 0.06 | 10     | 0.48 | 838    | < 1    | 0.01   |
| LOW 1+50N          | 221       | 3.11 | 0.2    | 10     | 50     | < 0.5  | < 2    | 0.26 | < 0.5  | 7      | 23     | 63     | 4.73 | 30     | 0.05 | 10     | 0.34 | 375    | < 1    | 0.01   |
| LOW 1+25N          | 221       | 4.09 | 0.2    | 5      | 40     | < 0.5  | < 2    | 0.18 | 0.5    | 6      | 22     | 89     | 4.88 | 20     | 0.05 | 10     | 0.34 | 333    | < 1    | 0.01   |
| LOW 1+00N          | 221       | 3.52 | 0.2    | < 5    | 40     | < 0.5  | < 2    | 0.16 | < 0.5  | 10     | 23     | 62     | 4.35 | 20     | 0.03 | < 10   | 0.39 | 301    | < 1    | 0.01   |
| LOW 0+75N          | 221       | 3.85 | 0.2    | 5      | 40     | < 0.5  | < 2    | 0.15 | 0.5    | 5      | 26     | 71     | 4.68 | 20     | 0.03 | < 10   | 0.32 | 224    | < 1    | 0.01   |
| LOW 0+50N          | 221       | 3.76 | 0.2    | 5      | 40     | < 0.5  | < 2    | 0.26 | 0.5    | 7      | 20     | 69     | 4.84 | 30     | 0.06 | 10     | 0.49 | 413    | < 1    | 0.01   |
| LOW 0+25N          | 221       | 4.82 | 0.2    | 10     | 90     | < 0.5  | < 2    | 0.69 | 0.5    | 16     | 26     | 150    | 4.71 | 20     | 0.12 | 10     | 0.85 | 822    | < 1    | 0.04   |
| LOW 0+00N          | 221       | 5.21 | 0.2    | 5      | 50     | < 0.5  | < 2    | 0.28 | 0.5    | 9      | 25     | 85     | 4.63 | 20     | 0.07 | 10     | 0.59 | 473    | < 1    | 0.01   |
| LOW 0+25S          | 221       | 8.63 | 0.2    | 10     | 60     | < 0.5  | < 2    | 0.26 | 0.5    | 10     | 30     | 126    | 5.02 | 20     | 0.07 | 10     | 0.60 | 591    | < 1    | 0.01   |
| LOW 0+50S          | 221       | 4.59 | 0.2    | 20     | 90     | < 0.5  | < 2    | 0.44 | 0.5    | 12     | 25     | 67     | 5.74 | 30     | 0.07 | 10     | 0.64 | 600    | < 1    | 0.01   |
| LOW 0+75S          | 221       | 3.36 | 0.2    | 5      | 70     | < 0.5  | < 2    | 0.28 | 0.5    | 14     | 25     | 53     | 5.66 | 30     | 0.04 | 10     | 0.47 | 398    | < 1    | 0.01   |
| LOW 1+00S          | 221       | 3.49 | 0.2    | 5      | 50     | < 0.5  | < 2    | 0.21 | < 0.5  | 5      | 29     | 47     | 4.64 | 20     | 0.04 | < 10   | 0.40 | 289    | < 1    | 0.01   |
| LOW 1+25S          | 221       | 4.50 | 0.2    | 5      | 50     | < 0.5  | < 2    | 0.21 | < 0.5  | 10     | 29     | 79     | 4.36 | 20     | 0.05 | 10     | 0.53 | 445    | < 1    | 0.01   |
| LOW 1+50S          | 221       | 3.31 | 0.2    | 5      | 40     | < 0.5  | < 2    | 0.13 | < 0.5  | 7      | 20     | 54     | 4.38 | 20     | 0.03 | < 10   | 0.25 | 381    | < 1    | < 0.01 |
| LOW 1+75S          | 221       | 3.09 | 0.2    | < 5    | 30     | < 0.5  | < 2    | 0.19 | 0.5    | 6      | 13     | 67     | 4.67 | 20     | 0.07 | < 10   | 0.37 | 343    | < 1    | 0.01   |
| LOW 2+00S          | 221       | 3.43 | 0.2    | 5      | 40     | < 0.5  | < 2    | 0.18 | < 0.5  | 5      | 31     | 58     | 5.13 | 20     | 0.04 | 10     | 0.38 | 230    | < 1    | 0.01   |
| LIW 3+00N          | 221       | 2.41 | 0.2    | 10     | 70     | < 0.5  | < 2    | 0.28 | 0.5    | 18     | 13     | 57     | 4.25 | 10     | 0.07 | 10     | 0.22 | 754    | < 1    | < 0.01 |
| LIW 2+75N          | 221       | 2.89 | 0.2    | 10     | 70     | < 0.5  | < 2    | 0.28 | < 0.5  | 10     | 18     | 61     | 4.06 | 20     | 0.05 | < 10   | 0.27 | 667    | < 1    | 0.01   |

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CERTIFICATION

*Hart/Bachler*



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## CERTIFICATE OF ANALYSIS A8621500

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
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 V5B 3N1

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Project : V222 RACKS O & R  
 Comments : ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %   | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|
| 14082              | 221       | 10     | 1030  | 2      | < 5    | 98     | 0.38   | < 10   | < 10  | 148   | < 5   | 74     |  |  |  |  |  |  |  |  |
| 14083              | 221       | 8      | 890   | < 2    | < 5    | 76     | 0.35   | < 10   | < 10  | 142   | < 5   | 76     |  |  |  |  |  |  |  |  |
| 14084              | 221       | 5      | 500   | 4      | < 5    | 23     | 0.07   | < 10   | < 10  | 48    | < 5   | 20     |  |  |  |  |  |  |  |  |
| 14085              | 221       | 9      | 1040  | 42     | < 5    | 116    | 0.37   | < 10   | < 10  | 142   | < 5   | 70     |  |  |  |  |  |  |  |  |
| 14086              | 221       | 10     | 1060  | 2      | < 5    | 157    | 0.40   | < 10   | < 10  | 172   | < 5   | 100    |  |  |  |  |  |  |  |  |
| 14087              | 221       | 20     | 280   | 4      | < 5    | 28     | 0.09   | < 10   | < 10  | 51    | < 5   | 24     |  |  |  |  |  |  |  |  |
| 14088              | 221       | 11     | 1390  | 2      | < 5    | 67     | 0.44   | < 10   | < 10  | 190   | < 5   | 98     |  |  |  |  |  |  |  |  |
| 14089              | 221       | 4      | 430   | 8      | < 5    | 4      | 0.11   | < 10   | < 10  | 57    | < 5   | 12     |  |  |  |  |  |  |  |  |
| 14090              | 221       | 12     | 790   | 2      | < 5    | 44     | 0.38   | < 10   | < 10  | 151   | < 5   | 84     |  |  |  |  |  |  |  |  |
| 14091              | 221       | 18     | 600   | 6      | < 5    | 16     | 0.14   | < 10   | < 10  | 85    | < 5   | 38     |  |  |  |  |  |  |  |  |
| 14092              | 221       | 2      | 1190  | < 2    | < 5    | 51     | 0.14   | < 10   | < 10  | 111   | < 5   | 20     |  |  |  |  |  |  |  |  |
| 14093              | 221       | 14     | 1000  | 8      | < 5    | 68     | 0.24   | < 10   | < 10  | 108   | < 5   | 126    |  |  |  |  |  |  |  |  |
| N-12 #1            | 221       | 47     | 540   | 6      | < 5    | 38     | 0.27   | < 10   | < 10  | 139   | < 5   | 112    |  |  |  |  |  |  |  |  |
| N-12 #2            | 221       | 30     | 720   | 12     | < 5    | 38     | 0.22   | < 10   | < 10  | 101   | < 5   | 88     |  |  |  |  |  |  |  |  |
| N-12 #3            | 221       | 28     | 870   | 16     | < 5    | 45     | 0.18   | < 10   | < 10  | 90    | < 5   | 90     |  |  |  |  |  |  |  |  |
| N-15 #1            | 221       | 49     | 580   | 60     | < 5    | 46     | 0.28   | < 10   | < 10  | 163   | < 5   | 112    |  |  |  |  |  |  |  |  |
| N-15 #2            | 221       | 28     | 780   | 22     | < 5    | 32     | 0.19   | < 10   | < 10  | 109   | < 5   | 98     |  |  |  |  |  |  |  |  |
| LOW 3+00N          | 221       | 7      | 540   | 14     | < 5    | 28     | 0.30   | < 10   | < 10  | 96    | < 5   | 68     |  |  |  |  |  |  |  |  |
| LOW 2+75N          | 221       | 2      | 510   | 10     | < 5    | 15     | < 0.01 | < 10   | < 10  | 3     | < 5   | 50     |  |  |  |  |  |  |  |  |
| LOW 2+50N          | 221       | 7      | 610   | 6      | < 5    | 12     | 0.45   | < 10   | < 10  | 145   | < 5   | 74     |  |  |  |  |  |  |  |  |
| LOW 2+25N          | 221       | 8      | 750   | 8      | < 5    | 12     | 0.26   | < 10   | < 10  | 118   | < 5   | 62     |  |  |  |  |  |  |  |  |
| LOW 2+00N          | 221       | 7      | 2460  | 8      | < 5    | 15     | 0.25   | < 10   | < 10  | 118   | < 5   | 86     |  |  |  |  |  |  |  |  |
| LOW 1+75N          | 221       | 9      | 1070  | 6      | < 5    | 14     | 0.40   | < 10   | < 10  | 171   | < 5   | 80     |  |  |  |  |  |  |  |  |
| LOW 1+50N          | 221       | 8      | 730   | 6      | < 5    | 13     | 0.23   | < 10   | < 10  | 138   | < 5   | 54     |  |  |  |  |  |  |  |  |
| LOW 1+25N          | 221       | 8      | 1000  | 4      | < 5    | 10     | 0.22   | < 10   | < 10  | 122   | < 5   | 66     |  |  |  |  |  |  |  |  |
| LOW 1+00N          | 221       | 10     | 460   | 6      | < 5    | 8      | 0.29   | < 10   | < 10  | 119   | < 5   | 56     |  |  |  |  |  |  |  |  |
| LOW 0+75N          | 221       | 7      | 1550  | 4      | < 5    | 7      | 0.24   | < 10   | < 10  | 116   | < 5   | 62     |  |  |  |  |  |  |  |  |
| LOW 0+50N          | 221       | 8      | 850   | 8      | < 5    | 12     | 0.34   | < 10   | < 10  | 136   | < 5   | 76     |  |  |  |  |  |  |  |  |
| LOW 0+25N          | 221       | 14     | 1300  | 6      | < 5    | 30     | 0.24   | < 10   | < 10  | 116   | < 5   | 90     |  |  |  |  |  |  |  |  |
| LOW 0+00N          | 221       | 10     | 1830  | 6      | < 5    | 13     | 0.28   | < 10   | < 10  | 121   | < 5   | 76     |  |  |  |  |  |  |  |  |
| LOW 0+25S          | 221       | 14     | 2610  | 4      | < 5    | 12     | 0.26   | < 10   | < 10  | 114   | < 5   | 90     |  |  |  |  |  |  |  |  |
| LOW 0+50S          | 221       | 11     | 1000  | 8      | < 5    | 17     | 0.32   | < 10   | < 10  | 138   | < 5   | 110    |  |  |  |  |  |  |  |  |
| LOW 0+75S          | 221       | 11     | 540   | 6      | < 5    | 13     | 0.31   | < 10   | < 10  | 156   | < 5   | 88     |  |  |  |  |  |  |  |  |
| LOW 1+00S          | 221       | 10     | 450   | 2      | < 5    | 11     | 0.23   | < 10   | < 10  | 135   | < 5   | 56     |  |  |  |  |  |  |  |  |
| LOW 1+25S          | 221       | 13     | 860   | 4      | < 5    | 11     | 0.23   | < 10   | < 10  | 105   | < 5   | 68     |  |  |  |  |  |  |  |  |
| LOW 1+50S          | 221       | 7      | 1240  | 10     | < 5    | 9      | 0.16   | < 10   | < 10  | 98    | < 5   | 42     |  |  |  |  |  |  |  |  |
| LOW 1+75S          | 221       | 5      | 720   | 10     | < 5    | 11     | 0.22   | < 10   | < 10  | 95    | < 5   | 48     |  |  |  |  |  |  |  |  |
| LOW 2+00S          | 221       | 9      | 610   | 4      | < 5    | 13     | 0.22   | < 10   | < 10  | 126   | < 5   | 44     |  |  |  |  |  |  |  |  |
| LOW 3+00N          | 221       | 7      | 680   | 8      | < 5    | 11     | 0.12   | < 10   | < 10  | 96    | < 5   | 106    |  |  |  |  |  |  |  |  |
| LOW 2+75N          | 221       | 9      | 670   | 10     | < 5    | 14     | 0.19   | < 10   | < 10  | 105   | < 5   | 108    |  |  |  |  |  |  |  |  |

CERTIFICATION :

*Hart Buchler*

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## CERTIFICATE OF ANALYSIS A8621500

To : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 3-A

Tot. Pages: 6

Date : 17-DEC-86

Invoice # : I-8621500

P.O. # : NONE

Project : V222 RACKS Q & R

Comments : ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|--------|
| LIW 2+50N          | 221       | 1.60 | < 0.2  | < 5    | 70     | < 0.5  | < 2    | 0.37 | < 0.5  | 6      | 13     | 55     | 2.96 | 20     | 0.12 | < 10   | 0.17 | 474    | < 1    | 0.01   |
| LIW 2+25N          | 221       | 1.54 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.30 | < 0.5  | 3      | 13     | 33     | 3.29 | 20     | 0.06 | < 10   | 0.22 | 230    | < 1    | 0.01   |
| LIW 2+00N          | 221       | 3.39 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.23 | < 0.5  | 6      | 20     | 69     | 4.17 | 20     | 0.04 | < 10   | 0.26 | 278    | < 1    | 0.01   |
| LIW 1+75N          | 221       | 2.84 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.22 | < 0.5  | 4      | 14     | 49     | 3.54 | 20     | 0.05 | < 10   | 0.26 | 244    | < 1    | 0.02   |
| LIW 1+50N          | 221       | 3.37 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.26 | < 0.5  | 7      | 25     | 69     | 3.89 | 20     | 0.06 | < 10   | 0.46 | 482    | < 1    | 0.01   |
| LIW 1+25N          | 221       | 4.42 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.16 | < 0.5  | 9      | 35     | 112    | 5.26 | 20     | 0.04 | < 10   | 0.61 | 283    | < 1    | 0.01   |
| LIW 1+00N          | 221       | 2.19 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.15 | < 0.5  | 4      | 19     | 27     | 4.22 | 30     | 0.03 | < 10   | 0.29 | 189    | < 1    | < 0.01 |
| LIW 0+75N          | 221       | 3.81 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.22 | 0.5    | 5      | 29     | 64     | 5.58 | 20     | 0.06 | < 10   | 0.51 | 299    | < 1    | 0.01   |
| LIW 0+50N          | 221       | 4.34 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.17 | 0.5    | 4      | 29     | 58     | 5.34 | 20     | 0.05 | < 10   | 0.35 | 291    | < 1    | < 0.01 |
| LIW 0+25N          | 221       | 4.46 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.21 | 0.5    | 5      | 29     | 73     | 4.77 | 20     | 0.05 | < 10   | 0.43 | 284    | < 1    | 0.01   |
| LIW 0+00N          | 221       | 4.40 | < 0.2  | < 5    | 60     | < 0.5  | < 2    | 0.18 | 0.5    | 7      | 32     | 74     | 5.85 | 30     | 0.09 | < 10   | 0.57 | 342    | < 1    | 0.01   |
| LIW 0+25S          | 221       | 3.92 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.19 | 0.5    | 6      | 29     | 58     | 6.13 | 30     | 0.07 | < 10   | 0.61 | 332    | < 1    | 0.01   |
| LIW 0+50S          | 221       | 3.09 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.21 | < 0.5  | 4      | 19     | 59     | 5.05 | 30     | 0.06 | < 10   | 0.50 | 383    | < 1    | 0.01   |
| LIW 0+75S          | 221       | 4.48 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.18 | < 0.5  | 6      | 29     | 66     | 4.65 | 20     | 0.05 | < 10   | 0.39 | 375    | < 1    | 0.01   |
| LIW 1+00S          | 221       | 4.22 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.15 | 0.5    | 5      | 34     | 54     | 5.23 | 20     | 0.04 | < 10   | 0.47 | 245    | < 1    | 0.01   |
| LIW 1+25S          | 221       | 2.15 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.12 | 0.5    | 3      | 23     | 38     | 3.93 | 10     | 0.02 | < 10   | 0.22 | 198    | < 1    | < 0.01 |
| LIW 1+50S          | 221       | 1.34 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 0.09 | < 0.5  | 2      | 15     | 12     | 3.06 | 20     | 0.02 | < 10   | 0.19 | 139    | < 1    | < 0.01 |
| LIW 1+75S          | 221       | 4.02 | < 0.2  | < 10   | 30     | < 0.5  | < 2    | 0.13 | < 0.5  | 5      | 35     | 48     | 4.76 | 20     | 0.02 | < 10   | 0.35 | 189    | < 1    | < 0.01 |
| LIW 2+00S          | 221       | 3.74 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.11 | 0.5    | 4      | 30     | 38     | 5.16 | 20     | 0.02 | < 10   | 0.28 | 195    | < 1    | < 0.01 |
| L2W 0+00S          | 221       | 4.21 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.13 | < 0.5  | 5      | 30     | 72     | 5.06 | 20     | 0.04 | < 10   | 0.43 | 222    | < 1    | 0.01   |
| L2W 0+25S          | 221       | 1.20 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.12 | < 0.5  | 2      | 10     | 14     | 2.05 | 20     | 0.03 | < 10   | 0.20 | 162    | < 1    | < 0.01 |
| L2W 0+50S          | 221       | 5.01 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.22 | < 0.5  | 8      | 35     | 71     | 4.13 | 20     | 0.04 | < 10   | 0.56 | 346    | < 1    | 0.01   |
| L2W 0+75S          | 221       | 2.11 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.16 | < 0.5  | 2      | 22     | 28     | 3.72 | 20     | 0.02 | < 10   | 0.21 | 188    | < 1    | < 0.01 |
| L2W 1+00S          | 221       | 5.22 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.14 | < 0.5  | 5      | 28     | 56     | 4.59 | 20     | 0.05 | < 10   | 0.37 | 243    | < 1    | < 0.01 |
| L2W 1+25S          | 221       | 1.93 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 0.13 | < 0.5  | < 1    | 24     | 18     | 3.92 | 30     | 0.01 | < 10   | 0.16 | 98     | < 1    | < 0.01 |
| L2W 1+50S          | 221       | 1.22 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 0.16 | < 0.5  | 3      | 17     | 9      | 2.38 | 20     | 0.02 | < 10   | 0.23 | 137    | < 1    | < 0.01 |
| L2W 1+75S          | 221       | 1.39 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.21 | < 0.5  | 2      | 9      | 68     | 3.37 | 30     | 0.02 | < 10   | 0.20 | 136    | < 1    | 0.01   |
| L2W 2+00S          | 221       | 4.55 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.13 | < 0.5  | 7      | 35     | 66     | 3.97 | 20     | 0.03 | < 10   | 0.50 | 251    | < 1    | 0.01   |
| L3W 3+00N          | 221       | 2.74 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.15 | < 0.5  | 5      | 22     | 40     | 3.75 | 20     | 0.03 | < 10   | 0.30 | 198    | < 1    | < 0.01 |
| L3W 2+75N          | 221       | 1.56 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.26 | < 0.5  | 5      | 12     | 30     | 3.21 | 20     | 0.04 | < 10   | 0.26 | 453    | 3      | 0.01   |
| L3W 2+50N          | 221       | 2.06 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.26 | < 0.5  | 7      | 21     | 34     | 3.51 | 20     | 0.03 | < 10   | 0.39 | 211    | < 1    | 0.01   |
| L3W 2+25N          | 221       | 1.55 | < 0.2  | < 5    | 90     | < 0.5  | < 2    | 0.31 | < 0.5  | 15     | 19     | 22     | 2.65 | 20     | 0.03 | < 10   | 0.33 | 824    | < 1    | 0.01   |
| L3W 2+00N          | 221       | 2.56 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.26 | < 0.5  | 7      | 26     | 34     | 3.83 | 20     | 0.04 | < 10   | 0.37 | 358    | < 1    | 0.01   |
| L3W 1+75N          | 221       | 2.63 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.28 | < 0.5  | 8      | 24     | 34     | 3.68 | 20     | 0.04 | < 10   | 0.37 | 413    | < 1    | 0.01   |
| L3W 1+50N          | 221       | 3.89 | < 0.2  | < 35   | 60     | < 0.5  | < 2    | 0.18 | < 0.5  | 14     | 22     | 76     | 4.40 | 10     | 0.05 | < 10   | 0.38 | 396    | < 1    | 0.01   |
| L3W 1+25N          | 221       | 1.90 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.26 | < 0.5  | 8      | 18     | 28     | 3.39 | 20     | 0.03 | < 10   | 0.31 | 465    | < 1    | 0.01   |
| L3W 1+00N          | 221       | 1.43 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.22 | < 0.5  | 3      | 14     | 22     | 2.82 | 20     | 0.03 | < 10   | 0.19 | 289    | < 1    | < 0.01 |
| L3W 0+75N          | 221       | 0.69 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.17 | < 0.5  | < 1    | 7      | 10     | 1.50 | 10     | 0.03 | < 10   | 0.10 | 143    | < 1    | < 0.01 |
| L3W 0+00S          | 221       | 3.99 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.12 | < 0.5  | 6      | 30     | 57     | 4.99 | 20     | 0.02 | < 10   | 0.43 | 273    | < 1    | < 0.01 |
| L3W 0+25S          | 221       | 1.09 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 0.13 | < 0.5  | 2      | 11     | 14     | 1.75 | 10     | 0.02 | < 10   | 0.14 | 119    | < 1    | < 0.01 |

CERTIFICATION :

*Hart Buchler*

RECEIVED DEC 19 1986



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## CERTIFICATE OF ANALYSIS A8621500

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 3-B  
 Tot. Pages: 6  
 Date : 17-DEC-86  
 Invoice #: I-8621500  
 P.O. #: NONE

Project : V222 RACKS Q & R  
 Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|
| L1W 2+50N          | 221       | 5      | 910   | 4      | < 5    | 13     | 0.20 | < 10   | < 10  | 87    | < 5   | 50     |  |  |  |  |  |  |  |
| L1W 2+25N          | 221       | 5      | 660   | 12     | < 5    | 16     | 0.18 | < 10   | < 10  | 96    | < 5   | 50     |  |  |  |  |  |  |  |
| L1W 2+00N          | 221       | 7      | 530   | 4      | < 5    | 12     | 0.25 | < 10   | < 10  | 114   | < 5   | 72     |  |  |  |  |  |  |  |
| L1W 1+75N          | 221       | 4      | 400   | 4      | < 5    | 12     | 0.23 | < 10   | < 10  | 99    | < 5   | 52     |  |  |  |  |  |  |  |
| L1W 1+50N          | 221       | 10     | 1030  | 8      | < 5    | 12     | 0.21 | < 10   | < 10  | 102   | < 5   | 50     |  |  |  |  |  |  |  |
| L1W 1+25N          | 221       | 13     | 570   | 2      | < 5    | 8      | 0.27 | < 10   | < 10  | 104   | < 5   | 40     |  |  |  |  |  |  |  |
| L1W 1+00N          | 221       | 5      | 480   | 6      | < 5    | 6      | 0.27 | < 10   | < 10  | 128   | < 5   | 36     |  |  |  |  |  |  |  |
| L1W 0+75N          | 221       | 10     | 1370  | 6      | < 5    | 10     | 0.24 | < 10   | < 10  | 137   | < 5   | 60     |  |  |  |  |  |  |  |
| L1W 0+50N          | 221       | 7      | 1100  | 6      | < 5    | 9      | 0.25 | < 10   | < 10  | 133   | < 5   | 56     |  |  |  |  |  |  |  |
| L1W 0+25N          | 221       | 9      | 1000  | 4      | < 5    | 11     | 0.23 | < 10   | < 10  | 118   | < 5   | 64     |  |  |  |  |  |  |  |
| L1W 0+00N          | 221       | 10     | 1540  | 8      | < 5    | 10     | 0.32 | < 10   | < 10  | 151   | < 5   | 60     |  |  |  |  |  |  |  |
| L1W 0+25S          | 221       | 8      | 1150  | 6      | < 5    | 10     | 0.35 | < 10   | < 10  | 156   | < 5   | 50     |  |  |  |  |  |  |  |
| L1W 0+50S          | 221       | 7      | 1090  | 10     | < 5    | 10     | 0.29 | < 10   | < 10  | 129   | < 5   | 70     |  |  |  |  |  |  |  |
| L1W 0+75S          | 221       | 8      | 1390  | 6      | < 5    | 10     | 0.21 | < 10   | < 10  | 110   | < 5   | 50     |  |  |  |  |  |  |  |
| L1W 1+00S          | 221       | 9      | 1420  | 6      | < 5    | 8      | 0.23 | < 10   | < 10  | 126   | < 5   | 46     |  |  |  |  |  |  |  |
| L1W 1+25S          | 221       | 5      | 560   | 4      | < 5    | 7      | 0.14 | < 10   | < 10  | 94    | < 5   | 40     |  |  |  |  |  |  |  |
| L1W 1+50S          | 221       | 3      | 550   | 4      | < 5    | 5      | 0.19 | < 10   | < 10  | 99    | < 5   | 22     |  |  |  |  |  |  |  |
| L1W 1+75S          | 221       | 9      | 1060  | 8      | < 5    | 8      | 0.22 | < 10   | < 10  | 124   | < 5   | 38     |  |  |  |  |  |  |  |
| L1W 2+00S          | 221       | 7      | 1310  | 6      | < 5    | 6      | 0.16 | < 10   | < 10  | 123   | < 5   | 38     |  |  |  |  |  |  |  |
| L2W 0+00S          | 221       | 9      | 830   | 8      | < 5    | 7      | 0.23 | < 10   | < 10  | 120   | < 5   | 44     |  |  |  |  |  |  |  |
| L2W 0+25S          | 221       | 2      | 260   | 4      | < 5    | 7      | 0.18 | < 10   | < 10  | 68    | < 5   | 24     |  |  |  |  |  |  |  |
| L2W 0+50S          | 221       | 12     | 850   | 2      | < 5    | 13     | 0.25 | < 10   | < 10  | 104   | < 5   | 54     |  |  |  |  |  |  |  |
| L2W 0+75S          | 221       | 3      | 340   | 4      | < 5    | 10     | 0.21 | < 10   | < 10  | 113   | < 5   | 30     |  |  |  |  |  |  |  |
| L2W 1+00S          | 221       | 7      | 530   | 6      | < 5    | 9      | 0.23 | < 10   | < 10  | 108   | < 5   | 42     |  |  |  |  |  |  |  |
| L2W 1+25S          | 221       | 3      | 380   | 4      | < 5    | 12     | 0.27 | < 10   | < 10  | 132   | < 5   | 20     |  |  |  |  |  |  |  |
| L2W 1+50S          | 221       | 5      | 340   | 2      | < 5    | 12     | 0.21 | < 10   | < 10  | 93    | < 5   | 22     |  |  |  |  |  |  |  |
| L2W 1+75S          | 221       | 3      | 370   | 14     | < 5    | 14     | 0.33 | < 10   | < 10  | 130   | < 5   | 56     |  |  |  |  |  |  |  |
| L2W 2+00S          | 221       | 10     | 560   | 2      | < 5    | 7      | 0.20 | < 10   | < 10  | 98    | < 5   | 42     |  |  |  |  |  |  |  |
| L3W 3+00N          | 221       | 6      | 720   | 6      | < 5    | 6      | 0.19 | < 10   | < 10  | 95    | < 5   | 46     |  |  |  |  |  |  |  |
| L3W 2+75N          | 221       | 4      | 650   | 18     | < 5    | 12     | 0.21 | < 10   | < 10  | 97    | < 5   | 46     |  |  |  |  |  |  |  |
| L3W 2+50N          | 221       | 9      | 230   | 2      | < 5    | 10     | 0.20 | < 10   | < 10  | 100   | < 5   | 40     |  |  |  |  |  |  |  |
| L3W 2+25N          | 221       | 7      | 300   | 6      | < 5    | 14     | 0.17 | < 10   | < 10  | 74    | < 5   | 52     |  |  |  |  |  |  |  |
| L3W 2+00N          | 221       | 8      | 660   | 4      | < 5    | 10     | 0.18 | < 10   | < 10  | 98    | < 5   | 52     |  |  |  |  |  |  |  |
| L3W 1+75N          | 221       | 10     | 500   | 4      | < 5    | 13     | 0.21 | < 10   | < 10  | 97    | < 5   | 64     |  |  |  |  |  |  |  |
| L3W 1+50N          | 221       | 13     | 700   | 8      | < 5    | 11     | 0.11 | < 10   | < 10  | 97    | < 5   | 96     |  |  |  |  |  |  |  |
| L3W 1+25N          | 221       | 7      | 740   | 8      | < 5    | 10     | 0.17 | < 10   | < 10  | 96    | < 5   | 54     |  |  |  |  |  |  |  |
| L3W 1+00N          | 221       | 4      | 510   | 8      | < 5    | 10     | 0.17 | < 10   | < 10  | 86    | < 5   | 42     |  |  |  |  |  |  |  |
| L3W 0+75N          | 221       | 2      | 270   | 8      | < 5    | 7      | 0.15 | < 10   | < 10  | 55    | < 5   | 22     |  |  |  |  |  |  |  |
| L3W 0+00S          | 221       | 8      | 1640  | 6      | < 5    | 5      | 0.21 | < 10   | < 10  | 118   | < 5   | 46     |  |  |  |  |  |  |  |
| L3W 0+25S          | 221       | 3      | 400   | 8      | < 5    | 6      | 0.12 | < 10   | < 10  | 63    | < 5   | 20     |  |  |  |  |  |  |  |

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## CERTIFICATE OF ANALYSIS A8621500

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 4-A

Tot. Pages: 6

Date : 17-DEC-86

Invoice # : I-8621500

P.O. # : NONE

Project : V222 RACKS Q & R

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|--------|
| LJW 0+50S          | 221       | 0.84 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.09 | < 0.5  | 1      | 11     | 10     | 1.71 | 10     | 0.02 | < 10   | 0.09 | 98     | < 1    | < 0.01 |
| LJW 0+75S          | 221       | 1.47 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 0.12 | < 0.5  | 3      | 18     | 15     | 3.00 | 10     | 0.02 | < 10   | 0.14 | 141    | < 1    | < 0.01 |
| LJW 1+00S          | 221       | 3.17 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.14 | < 0.5  | 6      | 32     | 37     | 4.22 | 20     | 0.02 | < 10   | 0.41 | 223    | < 1    | < 0.01 |
| LJW 1+25S          | 221       | 1.93 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.17 | < 0.5  | 6      | 17     | 16     | 3.56 | 30     | 0.03 | < 10   | 0.53 | 253    | < 1    | < 0.01 |
| LJW 1+50S          | 221       | 2.73 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 0.09 | < 0.5  | 2      | 30     | 17     | 4.57 | 20     | 0.01 | < 10   | 0.14 | 96     | < 1    | < 0.01 |
| LJW 1+75S          | 221       | 2.65 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.13 | < 0.5  | 4      | 25     | 31     | 4.05 | 20     | 0.03 | < 10   | 0.36 | 740    | < 1    | < 0.01 |
| LJW 2+00S          | 221       | 1.48 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.13 | < 0.5  | 3      | 12     | 20     | 2.69 | 20     | 0.02 | < 10   | 0.17 | 121    | < 1    | < 0.01 |
| BL 2+75E           | 221       | 0.79 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 0.29 | < 0.5  | 4      | 8      | 22     | 2.00 | 20     | 0.01 | < 10   | 0.09 | 235    | < 1    | < 0.01 |
| BL 2+50E           | 221       | 3.38 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.21 | < 0.5  | 10     | 26     | 93     | 4.95 | 20     | 0.02 | < 10   | 0.56 | 272    | < 1    | 0.01   |
| BL 2+25E           | 221       | 2.80 | < 0.2  | 5      | 40     | < 0.5  | < 2    | 0.19 | < 0.5  | 6      | 24     | 47     | 4.16 | 20     | 0.02 | < 10   | 0.41 | 231    | < 1    | 0.01   |
| BL 1+75E           | 221       | 4.43 | < 0.2  | 5      | 40     | < 0.5  | < 2    | 0.14 | < 0.5  | 9      | 28     | 60     | 4.86 | 20     | 0.02 | < 10   | 0.46 | 228    | < 1    | < 0.01 |
| BL 1+50E           | 221       | 1.79 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.24 | < 0.5  | 6      | 16     | 22     | 3.76 | 20     | 0.03 | < 10   | 0.34 | 220    | < 1    | 0.01   |
| BL 1+25E           | 221       | 3.18 | < 0.2  | 10     | 80     | < 0.5  | < 2    | 0.37 | < 0.5  | 16     | 26     | 75     | 4.70 | 20     | 0.06 | 10     | 0.89 | 549    | < 1    | 0.01   |
| BL 0+75E           | 221       | 3.71 | < 0.2  | 10     | 60     | < 0.5  | < 2    | 0.15 | < 0.5  | 9      | 25     | 42     | 5.81 | 30     | 0.04 | < 10   | 0.50 | 309    | < 1    | < 0.01 |
| BL 0+50E           | 221       | 3.22 | < 0.2  | 5      | 70     | < 0.5  | < 2    | 0.23 | < 0.5  | 10     | 22     | 50     | 4.97 | 30     | 0.04 | 10     | 0.58 | 416    | < 1    | 0.01   |
| BL 0+25E           | 221       | 2.52 | < 0.2  | 5      | 70     | < 0.5  | < 2    | 0.21 | < 0.5  | 5      | 13     | 41     | 3.93 | 30     | 0.06 | < 10   | 0.45 | 303    | < 1    | 0.01   |
| BL 0+25W           | 221       | 3.13 | < 0.2  | 5      | 40     | < 0.5  | < 2    | 0.17 | < 0.5  | 5      | 19     | 42     | 4.65 | 20     | 0.04 | < 10   | 0.32 | 304    | < 1    | < 0.01 |
| BL 0+50W           | 221       | 4.71 | 0.2    | 5      | 60     | < 0.5  | < 2    | 0.21 | < 0.5  | 10     | 27     | 109    | 4.58 | 30     | 0.08 | 10     | 0.63 | 396    | < 1    | 0.01   |
| BL 0+75W           | 221       | 3.82 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.27 | < 0.5  | 6      | 17     | 53     | 5.41 | 40     | 0.08 | 10     | 0.53 | 390    | < 1    | 0.02   |
| BL 1+25W           | 221       | 4.23 | 0.2    | 5      | 60     | < 0.5  | < 2    | 0.16 | < 0.5  | 7      | 25     | 60     | 4.77 | 30     | 0.07 | 10     | 0.42 | 404    | < 1    | 0.01   |
| BL 1+50W           | 221       | 2.21 | < 0.2  | < 5    | 60     | < 0.5  | < 2    | 0.39 | < 0.5  | 3      | 12     | 33     | 3.56 | 10     | 0.06 | < 10   | 0.30 | 387    | < 1    | 0.02   |
| BL 1+75W           | 221       | 3.25 | < 0.2  | 10     | 80     | < 0.5  | < 2    | 0.12 | < 0.5  | 5      | 19     | 37     | 5.63 | 30     | 0.08 | < 10   | 0.47 | 498    | < 1    | < 0.01 |
| BL 2+25W           | 221       | 2.79 | < 0.2  | 5      | 30     | < 0.5  | < 2    | 0.18 | < 0.5  | 4      | 23     | 33     | 4.56 | 30     | 0.04 | 10     | 0.36 | 214    | < 1    | 0.01   |
| BL 2+50W           | 221       | 5.08 | 0.2    | 5      | 40     | < 0.5  | < 2    | 0.20 | < 0.5  | 6      | 28     | 58     | 5.33 | 30     | 0.05 | 10     | 0.46 | 264    | < 1    | 0.01   |
| BL 2+75W           | 221       | 3.10 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.24 | < 0.5  | 5      | 27     | 33     | 5.94 | 40     | 0.05 | 10     | 0.46 | 301    | < 1    | 0.01   |
| BL 3+25W           | 221       | 4.70 | < 0.2  | 5      | 30     | < 0.5  | < 2    | 0.22 | < 0.5  | 5      | 33     | 58     | 5.28 | 20     | 0.05 | < 10   | 0.39 | 541    | < 1    | 0.01   |
| BL 3+50W           | 221       | 2.33 | 0.2    | < 5    | 20     | < 0.5  | < 2    | 0.30 | < 0.5  | 3      | 15     | 32     | 3.39 | 40     | 0.02 | 10     | 0.28 | 246    | < 1    | < 0.01 |
| BL 3+75W           | 221       | 2.58 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.28 | < 0.5  | 6      | 29     | 42     | 3.49 | 20     | 0.04 | 10     | 0.38 | 231    | < 1    | 0.01   |
| BL 4+00W           | 221       | 3.36 | 0.2    | < 5    | 40     | < 0.5  | < 2    | 0.21 | < 0.5  | 6      | 32     | 57     | 3.78 | 20     | 0.03 | < 10   | 0.36 | 351    | < 1    | 0.01   |
| L1E 2+27N          | 221       | 4.10 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.24 | < 0.5  | 7      | 28     | 53     | 3.72 | 20     | 0.03 | 10     | 0.36 | 443    | < 1    | 0.01   |
| L1E 2+50N          | 221       | 3.66 | < 0.2  | 10     | 70     | < 0.5  | < 2    | 0.64 | < 0.5  | 23     | 22     | 114    | 4.45 | 20     | 0.07 | 10     | 0.80 | 1220   | < 1    | 0.02   |
| L1E 2+25N          | 221       | 2.58 | < 0.2  | 5      | 50     | < 0.5  | < 2    | 0.26 | < 0.5  | 5      | 24     | 36     | 3.94 | 30     | 0.03 | 10     | 0.31 | 226    | < 1    | 0.01   |
| L1E 2+00N          | 221       | 3.00 | < 0.2  | < 5    | 60     | < 0.5  | < 2    | 0.35 | < 0.5  | 11     | 23     | 56     | 4.29 | 30     | 0.04 | 10     | 0.35 | 491    | < 1    | 0.01   |
| L1E 1+75N          | 221       | 4.01 | < 0.2  | 10     | 50     | < 0.5  | < 2    | 0.25 | < 0.5  | 7      | 27     | 46     | 5.78 | 30     | 0.05 | < 10   | 0.37 | 274    | < 1    | 0.01   |
| L1E 1+50N          | 221       | 1.84 | 0.2    | 5      | 50     | < 0.5  | < 2    | 0.28 | < 0.5  | 4      | 14     | 32     | 4.21 | 30     | 0.04 | 10     | 0.24 | 432    | < 1    | < 0.01 |
| L1E 1+25N          | 221       | 2.14 | < 0.2  | 105    | 60     | < 0.5  | < 2    | 0.27 | < 0.5  | 4      | 13     | 46     | 4.04 | 30     | 0.07 | 10     | 0.43 | 552    | < 1    | < 0.01 |
| L1E 1+00N          | 221       | 3.85 | 0.2    | 5      | 60     | < 0.5  | < 2    | 0.34 | < 0.5  | 10     | 25     | 61     | 4.63 | 30     | 0.05 | 10     | 0.51 | 386    | < 1    | 0.01   |
| L1E 0+75N          | 221       | 3.65 | 0.2    | 15     | 60     | < 0.5  | < 2    | 0.23 | < 0.5  | 8      | 25     | 57     | 5.38 | 20     | 0.04 | 10     | 0.35 | 352    | < 1    | 0.01   |
| L1E 0+50N          | 221       | 1.68 | < 0.2  | 10     | 60     | < 0.5  | < 2    | 0.39 | < 0.5  | 7      | 13     | 31     | 2.36 | 10     | 0.03 | < 10   | 0.26 | 368    | < 1    | < 0.01 |
| L1E 0+25N          | 221       | 2.62 | < 0.2  | 5      | 50     | < 0.5  | < 2    | 0.22 | < 0.5  | 7      | 21     | 36     | 4.56 | 20     | 0.04 | < 10   | 0.43 | 357    | < 1    | 0.01   |

CERTIFICATION :

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RECEIVED DEC 19 1986



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## CERTIFICATE OF ANALYSIS A8621500

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Page No. : 4-B

Tot. Pages: 6

Date : 17-DEC-86

Invoice # : I-8621500

P.O. # : NONE

Project : V222 RACKS Q & R

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Ti ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|
| LJW 0+50S          | 221       | 2      | 260   | 10     | < 5    | 6      | 0.09 | < 10   | < 10  | 57    | < 5   | 16     |  |  |  |  |  |  |  |  |
| LJW 0+75S          | 221       | 4      | 300   | 4      | < 5    | 5      | 0.12 | < 10   | < 10  | 80    | < 5   | 22     |  |  |  |  |  |  |  |  |
| LJW 1+00S          | 221       | 9      | 480   | 4      | < 5    | 7      | 0.18 | < 10   | < 10  | 104   | < 5   | 34     |  |  |  |  |  |  |  |  |
| LJW 1+25S          | 221       | 7      | 670   | 8      | < 5    | 13     | 0.22 | < 10   | < 10  | 115   | < 5   | 48     |  |  |  |  |  |  |  |  |
| LJW 1+50S          | 221       | 4      | 710   | 4      | < 5    | 5      | 0.15 | < 10   | < 10  | 111   | < 5   | 22     |  |  |  |  |  |  |  |  |
| LJW 1+75S          | 221       | 6      | 1060  | 10     | < 5    | 7      | 0.15 | < 10   | < 10  | 102   | < 5   | 42     |  |  |  |  |  |  |  |  |
| LJW 2+00S          | 221       | 2      | 300   | 4      | < 5    | 7      | 0.14 | < 10   | < 10  | 83    | < 5   | 28     |  |  |  |  |  |  |  |  |
| BL 2+75E           | 221       | 2      | 210   | 8      | < 5    | 7      | 0.20 | < 10   | < 10  | 65    | < 5   | 32     |  |  |  |  |  |  |  |  |
| BL 2+50E           | 221       | 12     | 490   | 4      | < 5    | 7      | 0.25 | < 10   | < 10  | 121   | < 5   | 74     |  |  |  |  |  |  |  |  |
| BL 2+25E           | 221       | 9      | 560   | 4      | < 5    | 7      | 0.22 | < 10   | < 10  | 106   | < 5   | 88     |  |  |  |  |  |  |  |  |
| BL 1+75E           | 221       | 12     | 400   | 6      | < 5    | 6      | 0.22 | < 10   | < 10  | 119   | < 5   | 64     |  |  |  |  |  |  |  |  |
| BL 1+50E           | 221       | 6      | 220   | 4      | < 5    | 8      | 0.16 | < 10   | < 10  | 111   | < 5   | 54     |  |  |  |  |  |  |  |  |
| BL 1+25E           | 221       | 22     | 240   | 4      | < 5    | 10     | 0.21 | < 10   | < 10  | 111   | < 5   | 88     |  |  |  |  |  |  |  |  |
| BL 0+75E           | 221       | 9      | 670   | 8      | < 5    | 7      | 0.27 | < 10   | < 10  | 148   | < 5   | 96     |  |  |  |  |  |  |  |  |
| BL 0+50E           | 221       | 10     | 450   | 4      | < 5    | 8      | 0.28 | < 10   | < 10  | 131   | < 5   | 80     |  |  |  |  |  |  |  |  |
| BL 0+25E           | 221       | 4      | 560   | 6      | < 5    | 8      | 0.31 | < 10   | < 10  | 124   | < 5   | 62     |  |  |  |  |  |  |  |  |
| BL 0+2.5W          | 221       | 5      | 710   | 6      | < 5    | 7      | 0.24 | < 10   | < 10  | 125   | < 5   | 70     |  |  |  |  |  |  |  |  |
| BL 0+50W           | 221       | 12     | 860   | 4      | < 5    | 13     | 0.28 | < 10   | < 10  | 114   | < 5   | 94     |  |  |  |  |  |  |  |  |
| BL 0+7.5W          | 221       | 5      | 850   | 6      | < 5    | 13     | 0.40 | < 10   | < 10  | 141   | < 5   | 66     |  |  |  |  |  |  |  |  |
| BL 1+2.5W          | 221       | 8      | 1740  | 4      | < 5    | 11     | 0.25 | < 10   | < 10  | 121   | < 5   | 74     |  |  |  |  |  |  |  |  |
| BL 1+50W           | 221       | 4      | 1220  | 14     | < 5    | 15     | 0.14 | < 10   | < 10  | 81    | < 5   | 58     |  |  |  |  |  |  |  |  |
| BL 1+7.5W          | 221       | 7      | 780   | 8      | < 5    | 11     | 0.23 | < 10   | < 10  | 163   | < 5   | 66     |  |  |  |  |  |  |  |  |
| BL 2+2.5W          | 221       | 5      | 640   | 8      | < 5    | 11     | 0.28 | < 10   | < 10  | 130   | < 5   | 40     |  |  |  |  |  |  |  |  |
| BL 2+50W           | 221       | 8      | 1420  | 6      | < 5    | 12     | 0.32 | < 10   | < 10  | 130   | < 5   | 52     |  |  |  |  |  |  |  |  |
| BL 2+7.5W          | 221       | 7      | 730   | 8      | < 5    | 14     | 0.35 | < 10   | < 10  | 157   | < 5   | 48     |  |  |  |  |  |  |  |  |
| BL 3+2.5W          | 221       | 9      | 2440  | 12     | < 5    | 12     | 0.20 | < 10   | < 10  | 117   | < 5   | 60     |  |  |  |  |  |  |  |  |
| BL 3+50W           | 221       | 5      | 860   | 8      | < 5    | 15     | 0.42 | < 10   | < 10  | 105   | < 5   | 40     |  |  |  |  |  |  |  |  |
| BL 3+7.5W          | 221       | 10     | 490   | 4      | < 5    | 14     | 0.24 | < 10   | < 10  | 104   | < 5   | 40     |  |  |  |  |  |  |  |  |
| BL 4+00W           | 221       | 9      | 580   | 14     | < 5    | 12     | 0.17 | < 10   | < 10  | 98    | < 5   | 42     |  |  |  |  |  |  |  |  |
| L1E 2+2.7N         | 221       | 8      | 1340  | 2      | < 5    | 10     | 0.20 | < 10   | < 10  | 92    | < 5   | 46     |  |  |  |  |  |  |  |  |
| L1E 2+50N          | 221       | 13     | 1170  | 14     | < 5    | 21     | 0.20 | < 10   | < 10  | 109   | < 5   | 82     |  |  |  |  |  |  |  |  |
| L1E 2+2.5N         | 221       | 7      | 770   | 8      | < 5    | 11     | 0.29 | < 10   | < 10  | 115   | < 5   | 48     |  |  |  |  |  |  |  |  |
| L1E 2+00N          | 221       | 10     | 1170  | 10     | < 5    | 16     | 0.24 | < 10   | < 10  | 108   | < 5   | 72     |  |  |  |  |  |  |  |  |
| L1E 1+7.5N         | 221       | 8      | 720   | 8      | < 5    | 12     | 0.33 | < 10   | < 10  | 139   | < 5   | 60     |  |  |  |  |  |  |  |  |
| L1E 1+50N          | 221       | 3      | 480   | 16     | < 5    | 14     | 0.32 | < 10   | < 10  | 119   | < 5   | 68     |  |  |  |  |  |  |  |  |
| L1E 1+2.5N         | 221       | 4      | 450   | 12     | < 5    | 9      | 0.34 | < 10   | < 10  | 116   | < 5   | 82     |  |  |  |  |  |  |  |  |
| L1E 1+00N          | 221       | 11     | 850   | 6      | < 5    | 14     | 0.25 | < 10   | < 10  | 108   | < 5   | 90     |  |  |  |  |  |  |  |  |
| L1E 0+7.5N         | 221       | 9      | 1650  | 8      | < 5    | 10     | 0.22 | < 10   | < 10  | 130   | < 5   | 78     |  |  |  |  |  |  |  |  |
| L1E 0+50N          | 221       | 6      | 640   | 14     | < 5    | 17     | 0.11 | < 10   | < 10  | 60    | < 5   | 64     |  |  |  |  |  |  |  |  |
| L1E 0+2.5N         | 221       | 8      | 600   | 6      | < 5    | 9      | 0.17 | < 10   | < 10  | 109   | < 5   | 72     |  |  |  |  |  |  |  |  |

CERTIFICATION : Paul Buchler

RECEIVED DEC 19 1986.





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 BROOKSBANK AVE., NORTH VANCOUVER,  
 BRITISH COLUMBIA, CANADA V7J-2C1  
 PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8621500

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 5-A

Tot. Pages: 6

Date : 17-DEC-86

Invoice #: I-8621500

P.O. #: NONE

Project : V222 RACKS Q & R

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|--------|
| L1E 0+00N          | 221       | 2.86 | 0.2    | 10     | 50     | < 0.5  | < 2    | 0.19 | < 0.5  | 5      | 21     | 36     | 5.31 | 30     | 0.04 | < 10   | 0.33 | 218    | < 1    | < 0.01 |
| L1E 0+25S          | 221       | 1.42 | < 0.2  | 10     | 40     | < 0.5  | < 2    | 0.08 | < 0.5  | 5      | 6      | 15     | 2.52 | < 10   | 0.05 | 10     | 0.06 | 109    | < 1    | < 0.01 |
| L1E 0+50S          | 221       | 4.62 | 0.2    | 20     | 50     | < 0.5  | < 2    | 0.19 | < 0.5  | 8      | 31     | 61     | 5.57 | 30     | 0.04 | 10     | 0.42 | 377    | < 1    | 0.01   |
| L1E 0+75S          | 221       | 3.88 | 0.2    | 20     | 60     | < 0.5  | < 2    | 0.21 | < 0.5  | 9      | 24     | 48     | 5.64 | 20     | 0.04 | < 10   | 0.43 | 337    | < 1    | 0.01   |
| L1E 1+00S          | 221       | 3.73 | 0.2    | < 5    | 50     | < 0.5  | < 2    | 0.29 | 0.5    | 10     | 27     | 66     | 5.07 | 30     | 0.05 | 10     | 0.68 | 406    | < 1    | 0.01   |
| L1E 1+25S          | 221       | 3.97 | 0.2    | 5      | 70     | < 0.5  | < 2    | 0.50 | < 0.5  | 22     | 31     | 139    | 4.50 | 20     | 0.07 | 10     | 0.96 | 695    | < 1    | 0.02   |
| L1E 1+50S          | 221       | 2.68 | < 0.2  | < 5    | 60     | < 0.5  | < 2    | 0.29 | < 0.5  | 11     | 24     | 64     | 4.54 | 20     | 0.04 | 10     | 0.33 | 429    | < 1    | 0.01   |
| L1E 1+75S          | 221       | 3.09 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.18 | 0.5    | 8      | 24     | 44     | 4.99 | 20     | 0.03 | < 10   | 0.44 | 275    | < 1    | < 0.01 |
| L1E 2+00S          | 221       | 3.82 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.17 | 0.5    | 11     | 25     | 58     | 4.86 | 20     | 0.04 | < 10   | 0.44 | 337    | < 1    | 0.01   |
| L2E 3+50N          | 221       | 2.19 | < 0.2  | 5      | 60     | < 0.5  | < 2    | 0.26 | < 0.5  | 8      | 22     | 51     | 3.31 | 10     | 0.03 | < 10   | 0.37 | 366    | < 1    | 0.01   |
| L2E 3+25N          | 221       | 2.57 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.25 | < 0.5  | 13     | 22     | 69     | 3.34 | 10     | 0.02 | 10     | 0.42 | 268    | < 1    | 0.01   |
| L2E 3+00N          | 221       | 2.52 | < 0.2  | 5      | 80     | < 0.5  | < 2    | 0.39 | 0.5    | 14     | 20     | 61     | 3.31 | 10     | 0.04 | 10     | 0.47 | 568    | < 1    | 0.02   |
| L2E 2+75N          | 221       | 2.32 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.19 | < 0.5  | 5      | 20     | 37     | 3.37 | 20     | 0.02 | < 10   | 0.30 | 200    | < 1    | 0.01   |
| L2E 2+50N          | 221       | 3.52 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.19 | 0.5    | 9      | 24     | 64     | 4.22 | 20     | 0.04 | 10     | 0.44 | 273    | < 1    | 0.01   |
| L2E 2+25N          | 221       | 3.66 | < 0.2  | 5      | 50     | < 0.5  | < 2    | 0.23 | < 0.5  | 10     | 31     | 83     | 4.24 | 20     | 0.03 | 10     | 0.51 | 385    | < 1    | 0.01   |
| L2E 2+00N          | 221       | 4.56 | < 0.2  | 5      | 80     | < 0.5  | < 2    | 0.57 | < 0.5  | 17     | 25     | 143    | 4.20 | 20     | 0.07 | 10     | 0.65 | 857    | < 1    | 0.02   |
| L2E 1+75N          | 221       | 2.56 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.21 | < 0.5  | 6      | 15     | 50     | 3.72 | 20     | 0.03 | < 10   | 0.36 | 442    | < 1    | < 0.01 |
| L2E 1+50N          | 221       | 1.51 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.43 | < 0.5  | 3      | 11     | 25     | 2.61 | 30     | 0.04 | 10     | 0.25 | 382    | < 1    | 0.01   |
| L2E 1+25N          | 221       | 2.81 | < 0.2  | 5      | 40     | < 0.5  | < 2    | 0.24 | < 0.5  | 5      | 22     | 33     | 4.33 | 30     | 0.04 | 10     | 0.32 | 189    | < 1    | 0.01   |
| L2E 1+00N          | 221       | 2.69 | < 0.2  | 10     | 50     | < 0.5  | < 2    | 0.22 | < 0.5  | 6      | 20     | 37     | 4.28 | 30     | 0.04 | 10     | 0.27 | 1665   | < 1    | 0.01   |
| L2E 0+75N          | 221       | 2.60 | 0.2    | 5      | 20     | < 0.5  | < 2    | 0.27 | < 0.5  | 4      | 17     | 50     | 2.86 | 20     | 0.02 | 10     | 0.22 | 178    | < 1    | 0.01   |
| L2E 0+50N          | 221       | 1.89 | 0.2    | 5      | 40     | < 0.5  | < 2    | 0.41 | < 0.5  | 4      | 17     | 44     | 3.59 | 30     | 0.02 | 10     | 0.18 | 289    | < 1    | 0.01   |
| L2E 0+25N          | 221       | 4.07 | < 0.2  | 5      | 50     | < 0.5  | < 2    | 0.21 | < 0.5  | 6      | 32     | 60     | 4.99 | 30     | 0.04 | 10     | 0.36 | 220    | < 1    | 0.01   |
| L2E 0+00N          | 221       | 3.24 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.19 | < 0.5  | 6      | 27     | 38     | 4.89 | 30     | 0.02 | 10     | 0.32 | 196    | < 1    | 0.01   |
| L2E 0+25S          | 221       | 4.70 | 0.2    | < 5    | 60     | < 0.5  | < 2    | 0.21 | 0.5    | 12     | 30     | 84     | 5.18 | 20     | 0.04 | 10     | 0.71 | 351    | < 1    | 0.01   |
| L2E 0+50S          | 221       | 3.91 | < 0.2  | 5      | 70     | < 0.5  | < 2    | 0.21 | < 0.5  | 10     | 28     | 51     | 5.52 | 30     | 0.04 | 10     | 0.50 | 343    | < 1    | < 0.01 |
| L2E 0+75S          | 221       | 4.22 | < 0.2  | 15     | 90     | < 0.5  | < 2    | 0.23 | < 0.5  | 15     | 29     | 76     | 5.45 | 20     | 0.04 | 10     | 0.69 | 587    | < 1    | 0.01   |
| L2E 1+00S          | 221       | 4.64 | 0.4    | 20     | 80     | < 0.5  | < 2    | 0.34 | < 0.5  | 15     | 33     | 80     | 5.86 | 30     | 0.05 | 10     | 0.70 | 419    | < 1    | 0.01   |
| L2E 1+25S          | 221       | 4.01 | 0.2    | 15     | 60     | < 0.5  | < 2    | 0.35 | 0.5    | 14     | 29     | 62     | 5.70 | 40     | 0.04 | 10     | 0.72 | 399    | < 1    | 0.01   |
| L2E 1+50S          | 221       | 4.54 | 0.4    | 20     | 70     | < 0.5  | < 2    | 0.65 | 0.5    | 18     | 30     | 58     | 5.98 | 30     | 0.06 | 20     | 0.74 | 441    | < 1    | 0.02   |
| L2E 1+75S          | 221       | 5.37 | 0.2    | 55     | 100    | < 0.5  | < 2    | 0.67 | < 0.5  | 35     | 57     | 161    | 5.20 | 20     | 0.06 | 20     | 1.06 | 809    | < 1    | 0.03   |
| L2E 2+00S          | 221       | 6.14 | 0.2    | 145    | 120    | < 0.5  | < 2    | 0.59 | < 0.5  | 21     | 55     | 113    | 5.12 | 20     | 0.05 | 20     | 0.91 | 846    | < 1    | 0.02   |
| L3E 4+00N          | 221       | 2.25 | 0.2    | 15     | 20     | < 0.5  | < 2    | 0.36 | 0.5    | 27     | 7      | 88     | 8.79 | 30     | 0.02 | 10     | 0.65 | 840    | < 1    | 0.01   |
| L3E 3+75N          | 221       | 2.69 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.23 | 0.5    | 8      | 20     | 65     | 4.91 | 20     | 0.02 | < 10   | 0.30 | 210    | < 1    | 0.01   |
| L3E 3+50N          | 221       | 1.44 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.20 | < 0.5  | 4      | 17     | 19     | 2.67 | 20     | 0.02 | < 10   | 0.23 | 141    | < 1    | 0.01   |
| L3E 3+25N          | 221       | 3.63 | < 0.2  | < 5    | 60     | < 0.5  | < 2    | 0.18 | < 0.5  | 7      | 31     | 61     | 4.22 | 20     | 0.02 | < 10   | 0.41 | 341    | < 1    | 0.01   |
| L3E 3+00N          | 221       | 3.96 | < 0.2  | 5      | 50     | < 0.5  | < 2    | 0.20 | < 0.5  | 10     | 28     | 98     | 3.91 | 10     | 0.03 | < 10   | 0.44 | 330    | < 1    | 0.01   |
| L3E 2+75N          | 221       | 3.90 | 0.2    | < 5    | 40     | < 0.5  | < 2    | 0.39 | < 0.5  | 12     | 32     | 115    | 5.03 | 20     | 0.04 | 10     | 0.46 | 386    | < 1    | 0.01   |
| L3E 2+50N          | 221       | 1.96 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.38 | < 0.5  | 10     | 17     | 88     | 3.74 | 20     | 0.03 | 10     | 0.29 | 550    | < 1    | 0.01   |
| L3E 2+25N          | 221       | 4.99 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.21 | 0.5    | 7      | 34     | 82     | 5.61 | 10     | 0.04 | 10     | 0.39 | 295    | < 1    | 0.01   |

CERTIFICATION :

*H. B. Richter*

RECEIVED DEC 19 1986



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers  
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 PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8621500

To : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 5-B  
 Tot. Pages: 6  
 Date : 17-DEC-86  
 Invoice # : I-8621500  
 P.O. # : NONE

Project : V222 RACKS Q & R  
 Comments : ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|
| L1E 0+00N          | 221       | 6      | 400   | 6      | < 5    | 10     | 0.26 | < 10   | < 10  | 154   | < 5   | 68     |  |  |  |  |  |  |  |  |
| L1E 0+25S          | 221       | 3      | 150   | 2      | < 5    | 5      | 0.01 | < 10   | < 10  | 45    | < 5   | 28     |  |  |  |  |  |  |  |  |
| L1E 0+50S          | 221       | 11     | 1130  | 4      | < 5    | 10     | 0.24 | < 10   | < 10  | 132   | < 5   | 82     |  |  |  |  |  |  |  |  |
| L1E 0+75S          | 221       | 10     | 840   | 12     | < 5    | 9      | 0.24 | < 10   | < 10  | 119   | < 5   | 100    |  |  |  |  |  |  |  |  |
| L1E 1+00S          | 221       | 16     | 760   | 4      | < 5    | 11     | 0.27 | < 10   | < 10  | 130   | < 5   | 104    |  |  |  |  |  |  |  |  |
| L1E 1+25S          | 221       | 74     | 1020  | 4      | < 5    | 17     | 0.24 | < 10   | < 10  | 115   | < 5   | 132    |  |  |  |  |  |  |  |  |
| L1E 1+50S          | 221       | 10     | 720   | 6      | < 5    | 14     | 0.24 | < 10   | < 10  | 104   | < 5   | 82     |  |  |  |  |  |  |  |  |
| L1E 1+75S          | 221       | 9      | 410   | 4      | < 5    | 9      | 0.23 | < 10   | < 10  | 144   | < 5   | 80     |  |  |  |  |  |  |  |  |
| L1E 2+00S          | 221       | 12     | 580   | 4      | < 5    | 8      | 0.22 | < 10   | < 10  | 129   | < 5   | 78     |  |  |  |  |  |  |  |  |
| L2E 3+50N          | 221       | 10     | 480   | 2      | < 5    | 11     | 0.16 | < 10   | < 10  | 93    | < 5   | 48     |  |  |  |  |  |  |  |  |
| L2E 3+25N          | 221       | 12     | 370   | 4      | < 5    | 10     | 0.15 | < 10   | < 10  | 91    | < 5   | 58     |  |  |  |  |  |  |  |  |
| L2E 3+00N          | 221       | 12     | 710   | 10     | < 5    | 17     | 0.15 | < 10   | < 10  | 83    | < 5   | 66     |  |  |  |  |  |  |  |  |
| L2E 2+75N          | 221       | 7      | 260   | 4      | < 5    | 8      | 0.23 | < 10   | < 10  | 104   | < 5   | 36     |  |  |  |  |  |  |  |  |
| L2E 2+50N          | 221       | 12     | 620   | 4      | < 5    | 9      | 0.23 | < 10   | < 10  | 107   | < 5   | 78     |  |  |  |  |  |  |  |  |
| L2E 2+25N          | 221       | 13     | 700   | 8      | < 5    | 11     | 0.22 | < 10   | < 10  | 108   | < 5   | 62     |  |  |  |  |  |  |  |  |
| L2E 2+00N          | 221       | 13     | 1280  | 10     | < 5    | 28     | 0.18 | < 10   | < 10  | 101   | < 5   | 74     |  |  |  |  |  |  |  |  |
| L2E 1+75N          | 221       | 6      | 620   | 8      | < 5    | 13     | 0.15 | < 10   | < 10  | 104   | < 5   | 52     |  |  |  |  |  |  |  |  |
| L2E 1+50N          | 221       | 3      | 700   | 14     | < 5    | 15     | 0.28 | < 10   | < 10  | 78    | < 5   | 42     |  |  |  |  |  |  |  |  |
| L2E 1+25N          | 221       | 5      | 940   | 6      | < 5    | 11     | 0.25 | < 10   | < 10  | 136   | < 5   | 44     |  |  |  |  |  |  |  |  |
| L2E 1+00N          | 221       | 5      | 1150  | 10     | < 5    | 11     | 0.25 | < 10   | < 10  | 124   | < 5   | 60     |  |  |  |  |  |  |  |  |
| L2E 0+75N          | 221       | 5      | 550   | 6      | < 5    | 9      | 0.26 | < 10   | < 10  | 85    | < 5   | 48     |  |  |  |  |  |  |  |  |
| L2E 0+50N          | 221       | 6      | 770   | 8      | < 5    | 13     | 0.30 | < 10   | < 10  | 110   | < 5   | 78     |  |  |  |  |  |  |  |  |
| L2E 0+25N          | 221       | 8      | 650   | 6      | < 5    | 10     | 0.25 | < 10   | < 10  | 135   | < 5   | 74     |  |  |  |  |  |  |  |  |
| L2E 0+00N          | 221       | 7      | 300   | 6      | < 5    | 11     | 0.28 | < 10   | < 10  | 149   | < 5   | 46     |  |  |  |  |  |  |  |  |
| L2E 0+25S          | 221       | 14     | 520   | 6      | < 5    | 10     | 0.25 | < 10   | < 10  | 125   | < 5   | 84     |  |  |  |  |  |  |  |  |
| L2E 0+50S          | 221       | 12     | 890   | 8      | < 5    | 10     | 0.24 | < 10   | < 10  | 133   | < 5   | 92     |  |  |  |  |  |  |  |  |
| L2E 0+75S          | 221       | 16     | 690   | 8      | < 5    | 9      | 0.23 | < 10   | < 10  | 134   | < 5   | 74     |  |  |  |  |  |  |  |  |
| L2E 1+00S          | 221       | 17     | 490   | 6      | < 5    | 16     | 0.33 | < 10   | < 10  | 162   | < 5   | 82     |  |  |  |  |  |  |  |  |
| L2E 1+25S          | 221       | 13     | 420   | 6      | < 5    | 16     | 0.34 | < 10   | < 10  | 161   | < 5   | 86     |  |  |  |  |  |  |  |  |
| L2E 1+50S          | 221       | 15     | 640   | 8      | < 5    | 22     | 0.30 | < 10   | < 10  | 151   | < 5   | 68     |  |  |  |  |  |  |  |  |
| L2E 1+75S          | 221       | 59     | 720   | 4      | < 5    | 35     | 0.21 | < 10   | < 10  | 132   | < 5   | 68     |  |  |  |  |  |  |  |  |
| L2E 2+00S          | 221       | 27     | 580   | 4      | < 5    | 23     | 0.21 | < 10   | < 10  | 110   | < 5   | 62     |  |  |  |  |  |  |  |  |
| L3E 4+00N          | 221       | 12     | 1040  | 6      | < 5    | 11     | 0.23 | < 10   | < 10  | 492   | < 5   | 70     |  |  |  |  |  |  |  |  |
| L3E 3+75N          | 221       | 8      | 770   | 4      | < 5    | 8      | 0.22 | < 10   | < 10  | 165   | < 5   | 54     |  |  |  |  |  |  |  |  |
| L3E 3+50N          | 221       | 4      | 240   | 2      | < 5    | 8      | 0.15 | < 10   | < 10  | 86    | < 5   | 36     |  |  |  |  |  |  |  |  |
| L3E 3+25N          | 221       | 11     | 760   | 4      | < 5    | 8      | 0.24 | < 10   | < 10  | 104   | < 5   | 64     |  |  |  |  |  |  |  |  |
| L3E 3+00N          | 221       | 13     | 750   | 2      | < 5    | 8      | 0.20 | < 10   | < 10  | 100   | < 5   | 62     |  |  |  |  |  |  |  |  |
| L3E 2+75N          | 221       | 14     | 750   | 6      | < 5    | 20     | 0.28 | < 10   | < 10  | 143   | < 5   | 72     |  |  |  |  |  |  |  |  |
| L3E 2+50N          | 221       | 7      | 430   | < 2    | < 5    | 16     | 0.22 | < 10   | < 10  | 116   | < 5   | 54     |  |  |  |  |  |  |  |  |
| L3E 2+25N          | 221       | 10     | 1230  | 6      | < 5    | 10     | 0.19 | < 10   | < 10  | 134   | < 5   | 56     |  |  |  |  |  |  |  |  |

CERTIFICATION :

*Hart Buchler*

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# Chemex Labs Ltd.

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## CERTIFICATE OF ANALYSIS A8621500

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 6-A  
 Tot. Pages: 6  
 Date : 17-DEC-86  
 Invoice # : I-8621500  
 P.O. # : NONE

Project : V222 RACKS Q & R  
 Comments : ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|--------|
| L3E 2+00N          | 221       | 4.50 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.23 | < 0.5  | 8      | 36     | 116    | 6.23 | 20     | 0.04 | < 10   | 0.44 | 281    | < 1    | 0.01   |
| L3E 1+75N          | 221       | 1.65 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.26 | < 0.5  | 4      | 16     | 38     | 2.47 | 10     | 0.03 | < 10   | 0.23 | 655    | < 1    | 0.01   |
| L3E 1+50N          | 221       | 2.80 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.29 | < 0.5  | 17     | 22     | 86     | 3.85 | 20     | 0.03 | 10     | 0.43 | 399    | < 1    | 0.01   |
| L3E 1+25N          | 221       | 3.69 | < 0.2  | 10     | 60     | < 0.5  | < 2    | 0.24 | < 0.5  | 16     | 27     | 120    | 4.56 | 20     | 0.04 | 10     | 0.51 | 380    | < 1    | 0.01   |
| L3E 1+00N          | 221       | 4.23 | < 0.2  | 5      | 70     | < 0.5  | < 2    | 0.45 | 0.5    | 35     | 23     | 64     | 4.19 | 20     | 0.04 | 10     | 0.48 | 886    | < 1    | 0.01   |
| L3E 0+75N          | 221       | 2.67 | < 0.2  | 85     | 30     | < 0.5  | < 2    | 0.16 | 0.5    | 7      | 20     | 72     | 4.55 | 10     | 0.02 | < 10   | 0.35 | 225    | < 1    | < 0.01 |
| L3E 0+50N          | 221       | 3.51 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.18 | 0.5    | 7      | 26     | 73     | 4.98 | 20     | 0.03 | < 10   | 0.39 | 282    | < 1    | 0.01   |
| L3E 0+25N          | 221       | 3.68 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 0.24 | 0.5    | 7      | 25     | 65     | 4.39 | 20     | 0.03 | 10     | 0.30 | 249    | < 1    | 0.01   |
| L3E 0+00N          | 221       | 4.89 | < 0.2  | 10     | 60     | < 0.5  | < 2    | 0.32 | < 0.5  | 11     | 35     | 94     | 4.92 | 20     | 0.06 | 10     | 0.71 | 455    | < 1    | 0.01   |
| L3E 0+25S          | 221       | 3.67 | < 0.2  | 5      | 60     | < 0.5  | < 2    | 0.28 | 0.5    | 9      | 31     | 82     | 5.70 | 20     | 0.06 | 10     | 0.54 | 394    | < 1    | 0.01   |
| L3E 0+50S          | 221       | 4.18 | 0.8    | 5      | 50     | < 0.5  | < 2    | 0.18 | < 0.5  | 9      | 25     | 108    | 4.54 | 20     | 0.04 | 10     | 0.27 | 343    | < 1    | 0.01   |
| L3E 0+75S          | 221       | 5.59 | 0.4    | 5      | 50     | < 0.5  | < 2    | 0.20 | < 0.5  | 8      | 33     | 78     | 5.43 | 20     | 0.05 | < 10   | 0.55 | 335    | < 1    | 0.01   |
| L3E 1+00S          | 221       | 2.40 | < 0.2  | 20     | 40     | < 0.5  | < 2    | 0.36 | < 0.5  | 10     | 22     | 71     | 4.14 | 10     | 0.03 | < 10   | 0.39 | 832    | < 1    | 0.01   |
| L3E 1+25S          | 221       | 3.67 | < 0.2  | 5      | 50     | < 0.5  | < 2    | 0.34 | 0.5    | 25     | 27     | 84     | 5.16 | 20     | 0.04 | 10     | 0.48 | 651    | < 1    | 0.01   |
| L3E 1+50S          | 221       | 4.73 | < 0.2  | 10     | 60     | < 0.5  | < 2    | 0.22 | 0.5    | 17     | 30     | 142    | 5.72 | 20     | 0.05 | 10     | 0.77 | 433    | < 1    | 0.01   |
| L3E 1+75S          | 221       | 3.57 | < 0.2  | < 5    | 50     | < 0.5  | < 2    | 0.24 | 0.5    | 17     | 21     | 62     | 4.26 | 10     | 0.04 | < 10   | 0.40 | 495    | < 1    | 0.01   |
| L3E 2+00S          | 221       | 2.24 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 0.29 | 0.5    | 4      | 19     | 47     | 3.85 | 20     | 0.04 | < 10   | 0.20 | 601    | < 1    | 0.01   |
| L1E 3+75N          | 221       | 3.16 | 0.2    | < 5    | 60     | < 0.5  | < 2    | 0.50 | < 0.5  | 8      | 28     | 62     | 3.72 | 20     | 0.05 | 10     | 0.47 | 419    | < 1    | 0.02   |
| L1E 4+00N          | 221       | 2.83 | 0.4    | 5      | 50     | < 0.5  | < 2    | 0.53 | < 0.5  | 14     | 27     | 67     | 3.85 | 20     | 0.06 | 10     | 0.66 | 433    | < 1    | 0.02   |

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CERTIFICATION :

*Hart Buchler*



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers  
 212 BROOKSBANK AVE., NORTH VANCOUVER,  
 BRITISH COLUMBIA, CANADA V7J-2C1  
 PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8621500

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 6-B  
 Tot. Pages: 6  
 Date : 17-DEC-86  
 Invoice # : I-8621500  
 P.O. # : NONE

Project : V222 RACKS Q & R  
 Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Ti ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|
| L3E 2+00N          | 221       | 11     | 1530  | 6      | < 5    | 12     | 0.27 | < 10   | < 10  | 146   | < 5   | 68     |  |  |  |  |  |  |  |  |
| L3E 1+75N          | 221       | 6      | 790   | 10     | < 5    | 11     | 0.15 | < 10   | < 10  | 74    | < 5   | 48     |  |  |  |  |  |  |  |  |
| L3E 1+50N          | 221       | 10     | 580   | 6      | < 5    | 10     | 0.22 | < 10   | < 10  | 100   | < 5   | 74     |  |  |  |  |  |  |  |  |
| L3E 1+25N          | 221       | 16     | 610   | 4      | < 5    | 11     | 0.25 | < 10   | < 10  | 127   | < 5   | 84     |  |  |  |  |  |  |  |  |
| L3E 1+00N          | 221       | 19     | 750   | 8      | < 5    | 15     | 0.20 | < 10   | < 10  | 102   | < 5   | 102    |  |  |  |  |  |  |  |  |
| L3E 0+75N          | 221       | 10     | 390   | 4      | < 5    | 7      | 0.17 | < 10   | < 10  | 120   | < 5   | 62     |  |  |  |  |  |  |  |  |
| L3E 0+50N          | 221       | 8      | 940   | 4      | < 5    | 7      | 0.21 | < 10   | < 10  | 122   | < 5   | 72     |  |  |  |  |  |  |  |  |
| L3E 0+25N          | 221       | 7      | 670   | 6      | < 5    | 12     | 0.26 | < 10   | < 10  | 117   | < 5   | 56     |  |  |  |  |  |  |  |  |
| L3E 0+00N          | 221       | 14     | 730   | 6      | < 5    | 14     | 0.29 | < 10   | < 10  | 126   | < 5   | 62     |  |  |  |  |  |  |  |  |
| L3E 0+25S          | 221       | 12     | 610   | 6      | < 5    | 14     | 0.29 | < 10   | < 10  | 157   | < 5   | 70     |  |  |  |  |  |  |  |  |
| L3E 0+50S          | 221       | 7      | 710   | 8      | < 5    | 9      | 0.22 | < 10   | < 10  | 117   | < 5   | 70     |  |  |  |  |  |  |  |  |
| L3E 0+75S          | 221       | 12     | 1040  | 6      | < 5    | 10     | 0.22 | < 10   | < 10  | 126   | < 5   | 64     |  |  |  |  |  |  |  |  |
| L3E 1+00S          | 221       | 13     | 560   | 6      | < 5    | 18     | 0.11 | < 10   | < 10  | 134   | < 5   | 50     |  |  |  |  |  |  |  |  |
| L3E 1+25S          | 221       | 15     | 880   | 10     | < 5    | 15     | 0.23 | < 10   | < 10  | 123   | < 5   | 100    |  |  |  |  |  |  |  |  |
| L3E 1+50S          | 221       | 17     | 530   | 6      | < 5    | 10     | 0.29 | < 10   | < 10  | 142   | < 5   | 86     |  |  |  |  |  |  |  |  |
| L3E 1+75S          | 221       | 11     | 590   | 6      | < 5    | 9      | 0.19 | < 10   | < 10  | 103   | < 5   | 100    |  |  |  |  |  |  |  |  |
| L3E 2+00S          | 221       | 5      | 1310  | 10     | < 5    | 10     | 0.19 | < 10   | < 10  | 110   | < 5   | 50     |  |  |  |  |  |  |  |  |
| L1E 3+75N          | 221       | 11     | 520   | 8      | < 5    | 22     | 0.23 | < 10   | < 10  | 101   | < 5   | 66     |  |  |  |  |  |  |  |  |
| L1E 4+00N          | 221       | 13     | 450   | 8      | < 5    | 19     | 0.31 | < 10   | < 10  | 106   | < 5   | 76     |  |  |  |  |  |  |  |  |

CERTIFICATION :

*Hart Ziebler*

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# Chemex Labs Ltd.

\*Analytical Chemists \*Geochemists \*Registered Assayers

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Telex: 043-52597

## CERTIFICATE OF ANALYSIS

TO : ROSSBACHER LABORATORY LIMITED

3225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5C 2N1

CERT. # : A8620390-001-A  
INVOICE # : I8620390  
DATE : 25-NOV-86  
P.O. # : NONE  
Q322

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and Y can only be considered as semi-quantitative.

COMMENTS :  
ATTN: P. ROSSBACHER

| Sample description | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe %   | Ga ppm | K %   | La ppm | Mg % | Mn ppm | Mo ppm | Na %  | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %  | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |    |    |
|--------------------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|-------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|--------|----|----|
| 14503              | 2.14 | 0.2    | <5     | 10     | <0.5   | <2     | 1.61 | <0.5   | 43     | 75     | 647    | 6.81   | 10     | 0.07  | 10     | 0.96 | 528    | <1     | 0.10  | 23     | 820   | 8      | <5     | 9      | 0.31  | <10    | <10   | 257   | <5    | 74     | -- | -- |
| 14504              | 2.07 | 0.2    | <5     | <10    | <0.5   | <2     | 1.50 | <0.5   | 43     | 16     | 635    | 6.76   | <10    | 0.05  | <10    | 0.98 | 524    | <1     | 0.08  | 26     | 1050  | 2      | <5     | 2      | 0.29  | <10    | <10   | 311   | <5    | 78     | -- | -- |
| 14505              | 1.68 | 0.2    | <5     | 50     | <0.5   | <2     | 3.20 | <0.5   | 48     | 108    | 614    | 5.89   | 10     | 0.23  | <10    | 1.60 | 430    | <1     | 0.40  | 108    | 1260  | 2      | <5     | 117    | 0.39  | <10    | <10   | 69    | <5    | 22     | -- | -- |
| 14506              | 0.70 | 0.2    | <5     | <10    | <0.5   | <2     | 0.20 | <0.5   | 1188   | 87     | 1518   | 9.92   | <10    | 0.01  | <10    | 0.37 | 111    | <1     | 0.01  | 103    | 30    | 6      | <5     | 1      | 0.05  | <10    | <10   | 46    | <5    | 14     | -- | -- |
| 14507              | 1.65 | 0.2    | <5     | <10    | <0.5   | <2     | 0.50 | <0.5   | 221    | 75     | 1809   | 12.35  | <10    | 0.01  | <10    | 1.00 | 113    | <1     | 0.02  | 130    | 280   | 12     | <5     | 1      | 0.15  | <10    | <10   | 111   | <5    | 34     | -- | -- |
| 14508              | 2.50 | 0.6    | <5     | 10     | <0.5   | 8      | 2.69 | <0.5   | 71     | 63     | 946    | 5.93   | 10     | 0.04  | <10    | 0.64 | 506    | <1     | 0.03  | 11     | 490   | 8      | <5     | <1     | 0.09  | <10    | <10   | 46    | <5    | 56     | -- | -- |
| 14509              | 1.02 | 0.2    | <5     | 180    | <0.5   | 2      | 1.91 | <0.5   | 19     | 89     | 389    | 4.16   | <10    | 0.04  | <10    | 0.53 | 634    | 4      | 0.07  | 13     | 320   | 2      | <5     | 1      | 0.16  | <10    | <10   | 65    | <5    | 38     | -- | -- |
| 14510              | 2.50 | 0.2    | <5     | 50     | <0.5   | <2     | 3.08 | <0.5   | 33     | 60     | 323    | 5.92   | 10     | 0.20  | <10    | 1.05 | 887    | <1     | 0.15  | 12     | 620   | 10     | <5     | 31     | 0.17  | <10    | <10   | 88    | <5    | 68     | -- | -- |
| 14511              | 1.59 | 1.4    | <5     | <10    | <0.5   | <2     | 1.10 | 0.5    | 112    | 72     | 4360   | >15.00 | <10    | 0.03  | <10    | 0.58 | 173    | <1     | 0.01  | 220    | 190   | 12     | <5     | 2      | 0.06  | <10    | <10   | 68    | <5    | 24     | -- | -- |
| 14512              | 0.92 | 0.6    | <5     | <10    | <0.5   | 4      | 1.97 | <0.5   | 53     | 61     | 1376   | >15.00 | <10    | <0.01 | <10    | 0.17 | 625    | 4      | 0.05  | 15     | 670   | 8      | <5     | 29     | 0.05  | <10    | <10   | 22    | 1005  | 24     | -- | -- |
| 14513              | 1.48 | 0.2    | 5      | <10    | <0.5   | <2     | 1.74 | <0.5   | 62     | 77     | 602    | 3.41   | <10    | <0.01 | <10    | 0.58 | 285    | 24     | 0.02  | 30     | 580   | <2     | <5     | 45     | 0.46  | <10    | <10   | 49    | <5    | 34     | -- | -- |
| 14514              | 2.24 | 0.2    | <5     | 60     | <0.5   | <2     | 2.07 | <0.5   | 20     | 50     | 295    | 5.14   | <10    | 0.07  | 10     | 0.93 | 911    | 1      | 0.04  | 11     | 2610  | 2      | <5     | 51     | 0.13  | <10    | <10   | 90    | <5    | 74     | -- | -- |
| 14515              | 1.15 | 0.2    | <5     | <10    | <0.5   | <2     | 1.58 | <0.5   | 63     | 39     | 1576   | 9.50   | <10    | 0.04  | 10     | 0.25 | 295    | 3      | 0.03  | 25     | 1520  | 8      | <5     | 3      | 0.09  | <10    | <10   | 33    | <5    | 40     | -- | -- |
| 14516              | 1.14 | 0.2    | <5     | <10    | <0.5   | <2     | 1.59 | <0.5   | 42     | 44     | 761    | 6.78   | <10    | 0.05  | 10     | 0.19 | 211    | 1      | 0.04  | 19     | 2110  | 2      | <5     | 2      | 0.09  | <10    | <10   | 45    | <5    | 36     | -- | -- |
| 14517              | 1.31 | 0.2    | 5      | <10    | <0.5   | 2      | 0.93 | <0.5   | 28     | 98     | 415    | 5.53   | <10    | 0.03  | <10    | 0.65 | 384    | 36     | 0.07  | 15     | 940   | 4      | <5     | 9      | 0.11  | <10    | <10   | 64    | <5    | 30     | -- | -- |
| 14518              | 1.30 | 0.2    | <5     | 10     | <0.5   | 2      | 0.97 | <0.5   | 22     | 42     | 393    | 5.73   | <10    | 0.05  | 10     | 0.76 | 562    | 51     | 0.06  | 15     | 1470  | 6      | <5     | 8      | 0.14  | <10    | <10   | 80    | <5    | 34     | -- | -- |
| 14519              | 1.64 | 0.2    | <5     | 10     | <0.5   | <2     | 1.48 | <0.5   | 40     | 62     | 471    | 5.89   | <10    | 0.05  | 10     | 0.52 | 483    | 2      | 0.11  | 22     | 1590  | 6      | <5     | 23     | 0.12  | <10    | <10   | 49    | <5    | 36     | -- | -- |
| 14520              | 1.73 | 0.6    | <5     | <10    | <0.5   | <2     | 0.67 | <0.5   | 147    | 57     | 1370   | 10.34  | <10    | 0.02  | <10    | 1.02 | 435    | 895    | 0.03  | 57     | 380   | 6      | <5     | 2      | 0.20  | <10    | <10   | 91    | <5    | 58     | -- | -- |
| 14521              | 1.75 | 2.4    | <5     | <10    | <0.5   | <2     | 2.80 | <0.5   | 33     | 36     | 1623   | 9.03   | 10     | 0.04  | <10    | 0.80 | 1399   | 17     | 0.03  | 11     | 1520  | 4      | <5     | <1     | 0.12  | <10    | <10   | 87    | 50    | 82     | -- | -- |
| 14522              | 0.27 | 3.4    | <5     | <10    | <0.5   | <2     | 2.62 | <0.5   | 182    | 46     | 4139   | >15.00 | <10    | <0.01 | <10    | 0.05 | 483    | 2      | <0.01 | 34     | 200   | 14     | <5     | <1     | 0.01  | <10    | <10   | 19    | 60    | 40     | -- | -- |
| 14523              | 0.50 | 4.2    | <5     | <10    | <0.5   | <2     | 7.26 | 0.5    | 138    | 50     | 5057   | >15.00 | 30     | <0.01 | <10    | 0.05 | 1662   | <1     | <0.01 | 25     | 220   | 14     | <5     | <1     | 0.01  | <10    | <10   | 33    | 310   | 42     | -- | -- |
| 14524              | 1.52 | 4.4    | <5     | <10    | <0.5   | <2     | 3.19 | 0.5    | 166    | 45     | 2974   | >15.00 | 10     | <0.01 | <10    | 0.11 | 795    | <1     | <0.01 | 35     | 280   | 16     | <5     | <1     | <0.01 | <10    | <10   | 19    | 33    | 30     | -- | -- |
| M3                 | 3.19 | 0.2    | 10     | 110    | <0.5   | <2     | 1.10 | <0.5   | 19     | 91     | 66     | 4.02   | <10    | 0.08  | 10     | 1.91 | 707    | <1     | 0.05  | 28     | 580   | 30     | <5     | 23     | 0.23  | <10    | <10   | 100   | <5    | 136    | -- | -- |
| M4                 | 3.46 | 0.4    | 10     | 170    | <0.5   | <2     | 1.13 | <0.5   | 21     | 154    | 87     | 4.36   | <10    | 0.14  | 10     | 0.91 | 899    | <1     | 0.08  | 28     | 950   | 60     | <5     | 35     | 0.23  | <10    | <10   | 112   | <5    | 88     | -- | -- |
| M5                 | 2.73 | 0.2    | 10     | 140    | <0.5   | <2     | 0.90 | <0.5   | 21     | 301    | 70     | 4.52   | <10    | 0.10  | 10     | 0.87 | 747    | <1     | 0.05  | 33     | 840   | 8      | <5     | 28     | 0.18  | <10    | <10   | 103   | <5    | 58     | -- | -- |
| M6                 | 2.90 | 0.2    | 5      | 110    | <0.5   | <2     | 0.82 | <0.5   | 18     | 391    | 51     | 3.97   | <10    | 0.07  | 10     | 0.77 | 566    | <1     | 0.06  | 32     | 630   | 46     | <5     | 25     | 0.15  | <10    | <10   | 100   | <5    | 48     | -- | -- |
| M7                 | 3.34 | 0.6    | 20     | 150    | <0.5   | <2     | 0.75 | <0.5   | 20     | 186    | 70     | 4.10   | <10    | 0.08  | 10     | 0.84 | 673    | 1      | 0.03  | 32     | 750   | 16     | <5     | 26     | 0.19  | <10    | <10   | 92    | 5     | 104    | -- | -- |

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Certified by ...

*Handwritten signature*



# Chemex Labs Ltd.

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## CERTIFICATE OF ANALYSIS A8620988

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V6B 3N1

Page No. : 1-A  
 Tot. Pages : 1  
 Date : 06-DEC-86  
 Invoice # : I-8620988  
 P.O. # : NONE

Project : V 222 RACK E  
 Comments :

| SAMPLE DESCRIPTIONS | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe %  | Ga ppm | K %   | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|---------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|-------|--------|-------|--------|------|--------|--------|--------|
| 14626               | 221 --    | 0.49 | 0.4    | 15     | <10    | Δ 0.5  | Δ      | 0.60 | Δ 0.5  | 63     | 94     | 1320   | 9.10  | <10    | <0.01 | <10    | 0.18 | 183    | <1     | <0.01  |
| 14626               | 221 --    | 1.02 | 0.2    | Δ      | <10    | Δ 0.5  | 8      | 1.15 | Δ 0.5  | 13     | 57     | 539    | 3.17  | 10     | 0.06  | 10     | 0.40 | 268    | 9      | 0.05   |
| 14627               | 221 --    | 4.05 | 0.2    | Δ      | 50     | Δ 0.5  | Δ      | 2.61 | Δ 0.5  | 23     | 42     | 251    | 4.04  | 10     | 0.19  | <10    | 0.57 | 228    | <1     | 0.43   |
| 14628               | 221 --    | 5.90 | 0.2    | 5      | 50     | Δ 0.5  | Δ      | 3.77 | Δ 0.5  | 17     | 45     | 77     | 4.95  | 20     | 0.15  | <10    | 0.89 | 472    | 6      | 0.62   |
| 14628               | 221 --    | 2.40 | 0.8    | 15     | 10     | Δ 0.5  | Δ      | 2.34 | Δ 0.5  | 65     | 16     | 1705   | 10.10 | 10     | 0.06  | <10    | 1.40 | 648    | <1     | 0.08   |
| 14630               | 221 --    | 0.19 | 0.2    | Δ      | 30     | Δ 0.5  | Δ      | 6.22 | Δ 0.5  | 9      | 58     | 36     | 3.15  | 20     | 0.10  | <10    | 2.00 | 1330   | <1     | 0.01   |
| 14631               | 221 --    | 2.10 | 0.2    | Δ      | 130    | Δ 0.5  | Δ      | 0.76 | Δ 0.5  | 22     | 48     | 133    | 4.56  | 10     | 0.54  | 20     | 1.79 | 665    | <1     | 0.06   |
| 14632               | 221 --    | 1.34 | 0.6    | 15     | 10     | Δ 0.5  | Δ      | 1.41 | Δ 0.5  | 27     | 64     | 616    | 6.36  | 10     | 0.07  | <10    | 0.36 | 274    | 16     | 0.04   |
| 14633               | 221 --    | 1.55 | 0.2    | 5      | 50     | Δ 0.5  | Δ      | 0.36 | Δ 0.5  | 11     | 67     | 48     | 3.11  | <10    | <0.01 | <10    | 1.12 | 561    | <1     | 0.02   |
| 14634               | 221 --    | 2.54 | 0.4    | Δ      | 20     | Δ 0.5  | Δ      | 0.96 | Δ 0.5  | 18     | 46     | 100    | 4.75  | 10     | 0.04  | <10    | 1.38 | 984    | <1     | 0.02   |
| 14635               | 221 --    | 2.27 | 0.6    | 10     | 30     | Δ 0.5  | Δ      | 1.79 | Δ 0.5  | 46     | 38     | 549    | 5.97  | 20     | 0.08  | <10    | 1.07 | 681    | <1     | 0.05   |
| 14636               | 221 --    | 0.42 | 0.6    | 5      | <10    | Δ 0.5  | Δ      | 0.19 | Δ 0.5  | 26     | 145    | 188    | 1.76  | <10    | <0.01 | <10    | 0.20 | 98     | 1      | 0.01   |
| 14637               | 221 --    | 0.52 | 0.4    | 55     | 10     | Δ 0.5  | 2      | 0.58 | Δ 0.5  | 6      | 95     | 267    | 1.10  | <10    | 0.05  | <10    | 0.08 | 165    | <1     | 0.02   |
| 14638               | 221 --    | 1.88 | 1.0    | 120    | 10     | Δ 0.5  | Δ      | 1.54 | Δ 0.5  | 13     | 132    | 1005   | 1.63  | 10     | 0.06  | <10    | 0.14 | 182    | <1     | 0.17   |
| 14638               | 221 --    | 1.15 | 0.2    | 150    | 10     | Δ 0.5  | 2      | 1.06 | Δ 0.5  | 15     | 124    | 322    | 1.46  | 10     | 0.04  | <10    | 0.11 | 141    | <1     | 0.10   |
| 14640               | 221 --    | 1.47 | 2.8    | Δ      | <10    | Δ 0.5  | Δ      | 1.22 | Δ 0.5  | 48     | 95     | >10000 | 5.10  | 10     | 0.02  | <10    | 0.70 | 237    | <1     | 0.03   |
| 14641               | 221 --    | 2.74 | 0.6    | 10     | 280    | Δ 0.5  | Δ      | 1.23 | Δ 0.5  | 16     | 34     | 199    | 4.95  | 10     | 0.15  | <10    | 1.24 | 912    | 6      | Δ 0.01 |
| 14642               | 221 --    | 1.84 | 2.0    | 790    | 30     | Δ 0.5  | Δ      | 0.09 | Δ 0.5  | 34     | 87     | 9720   | 10.85 | <10    | 0.06  | <10    | 0.35 | 226    | <1     | Δ 0.01 |
| 14648               | 221 --    | 0.27 | 3.0    | 70     | <10    | Δ 0.5  | 16     | 0.40 | Δ 0.5  | 15     | 135    | 783    | 3.46  | <10    | <0.01 | <10    | 0.11 | 174    | <1     | Δ 0.01 |
| M-08                | 221 --    | 4.10 | 0.2    | 10     | 90     | Δ 0.5  | Δ      | 0.86 | Δ 0.5  | 17     | 107    | 101    | 3.70  | 10     | 0.11  | 10     | 0.94 | 416    | <1     | 0.05   |
| M-09                | 221 --    | 3.12 | 1.4    | Δ      | 130    | Δ 0.5  | Δ      | 1.44 | Δ 0.5  | 18     | 133    | 83     | 4.06  | 20     | 0.14  | 10     | 0.92 | 615    | <1     | 0.09   |
| M-10                | 221 --    | 5.13 | 0.2    | 25     | 190    | 0.5    | Δ      | 1.93 | Δ 0.5  | 29     | 190    | 115    | 5.13  | 10     | 0.17  | 10     | 1.21 | 1340   | <1     | 0.04   |
| M-11                | 221 --    | 3.72 | 0.4    | 15     | 170    | 0.5    | Δ      | 1.62 | Δ 0.5  | 19     | 124    | 83     | 3.78  | 10     | 0.08  | 10     | 0.82 | 765    | <1     | 0.05   |
| M-12                | 221 --    | 4.47 | 4.2    | Δ      | 150    | 1.0    | Δ      | 0.85 | Δ 0.5  | 28     | 135    | 79     | 4.34  | 10     | 0.13  | 10     | 0.85 | 879    | <1     | 0.04   |
| M-13                | 221 --    | 6.08 | 0.4    | 20     | 120    | 0.5    | Δ      | 1.21 | Δ 0.5  | 28     | 121    | 122    | 5.06  | 20     | 0.13  | 10     | 1.16 | 1275   | <1     | 0.07   |
| M-14                | 221 --    | 4.69 | 0.2    | 20     | 190    | 0.5    | Δ      | 1.46 | Δ 0.5  | 24     | 325    | 88     | 4.61  | 10     | 0.12  | 20     | 0.95 | 1180   | 1      | 0.07   |
| M-15                | 221 --    | 3.62 | 0.2    | Δ      | 130    | Δ 0.5  | Δ      | 0.90 | Δ 0.5  | 18     | 162    | 82     | 3.84  | 10     | 0.09  | 10     | 0.80 | 547    | <1     | 0.04   |
| M-16                | 221 --    | 4.08 | 0.6    | 10     | 150    | Δ 0.5  | Δ      | 1.39 | Δ 0.5  | 21     | 116    | 95     | 4.13  | 10     | 0.10  | 10     | 0.87 | 1070   | <1     | 0.04   |
| M-17                | 221 --    | 2.30 | 0.6    | Δ      | 80     | Δ 0.5  | Δ      | 1.08 | Δ 0.5  | 13     | 258    | 57     | 2.88  | 10     | 0.06  | 10     | 0.52 | 603    | <1     | 0.03   |
| M-18                | 221 --    | 5.42 | 0.4    | 25     | 120    | 0.5    | Δ      | 1.12 | Δ 0.5  | 19     | 84     | 87     | 4.49  | 10     | 0.09  | 10     | 0.95 | 586    | <1     | 0.04   |
| M-20                | 221 --    | 3.04 | 0.2    | 20     | 160    | Δ 0.5  | Δ      | 1.04 | Δ 0.5  | 21     | 343    | 72     | 4.05  | 10     | 0.14  | 10     | 1.18 | 760    | <1     | 0.05   |

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CERTIFICATION :

*Hunt Becker*



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 PHONE (604) 984-0221 TELEX 043-52597

## CERTIFICATE OF ANALYSIS A8620988

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : I-B  
 Tot. Pages : 1  
 Date : 06-DEC-86  
 Invoice # : I-8620988  
 P.O. # : NONE

Project : V 222 RACK E

Comments :

| SAMPLE DESCRIPTIONS | PREP CODE | Ni ppm | P ppm | Pb ppm | sb ppm | sr ppm | Tl % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |     |       |       |       |       |       |       |
|---------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|-----|-------|-------|-------|-------|-------|-------|
| 14526               | 221 --    | 19     | 400   | 12     | △      | △      | <1   | 0.02   | <10   | <10   | 26    | △      | 28  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14526               | 221 --    | 9      | 930   | △      | △      | △      | 1    | 0.19   | <10   | <10   | 57    | △      | 28  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14527               | 221 --    | 7      | 930   | △      | △      | △      | 189  | 0.17   | <10   | <10   | 31    | △      | 16  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14528               | 221 --    | 11     | 980   | 2      | △      | △      | 243  | 0.21   | <10   | <10   | 85    | △      | 46  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14529               | 221 --    | 13     | 1450  | 4      | △      | △      | 7    | 0.23   | <10   | <10   | 249   | △      | 70  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14530               | 221 --    | 5      | 550   | △      | △      | △      | 181  | <0.01  | <10   | <10   | 11    | △      | 14  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14531               | 221 --    | 14     | 1230  | △      | △      | △      | 16   | 0.36   | <10   | <10   | 156   | △      | 64  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14532               | 221 --    | 24     | 810   | 6      | △      | △      | 2    | 0.21   | <10   | <10   | 79    | △      | 66  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14533               | 221 --    | 13     | 230   | △      | △      | △      | 6    | 0.16   | <10   | <10   | 62    | △      | 50  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14534               | 221 --    | 20     | 890   | 4      | △      | △      | 34   | 0.33   | <10   | <10   | 86    | △      | 96  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14535               | 221 --    | 8      | 1650  | △      | △      | △      | 30   | 0.38   | <10   | <10   | 121   | △      | 72  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14536               | 221 --    | 18     | 110   | 2      | △      | △      | 1    | 0.04   | <10   | <10   | 23    | △      | 10  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14537               | 221 --    | 4      | 190   | △      | △      | △      | 1    | 0.03   | <10   | <10   | 25    | △      | 12  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14538               | 221 --    | 7      | 410   | 2      | △      | △      | 25   | 0.08   | <10   | <10   | 39    | △      | 32  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14539               | 221 --    | 5      | 380   | 2      | △      | △      | 18   | 0.06   | <10   | <10   | 27    | △      | 26  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14540               | 221 --    | 27     | 560   | △      | △      | △      | <1   | 0.20   | <10   | <10   | 66    | △      | 58  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14541               | 221 --    | 22     | 680   | 14     | △      | △      | 67   | 0.43   | <10   | <10   | 55    | △      | 70  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14542               | 221 --    | 11     | 420   | 8      | △      | △      | 2    | 0.02   | <10   | <10   | 54    | △      | 36  | ----- | ----- | ----- | ----- | ----- | ----- |
| 14546               | 221 --    | 5      | 100   | 4      | △      | △      | 1    | 0.01   | <10   | <10   | 9     | △      | 20  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-08                | 221 --    | 32     | 930   | 4      | △      | △      | 19   | 0.36   | <10   | <10   | 119   | △      | 54  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-09                | 221 --    | 26     | 720   | 50     | △      | △      | 37   | 0.35   | <10   | <10   | 136   | △      | 72  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-10                | 221 --    | 32     | 730   | 14     | △      | △      | 75   | 0.31   | <10   | <10   | 144   | △      | 104 | ----- | ----- | ----- | ----- | ----- | ----- |
| M-11                | 221 --    | 31     | 670   | 12     | △      | △      | 36   | 0.30   | <10   | <10   | 118   | △      | 78  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-12                | 221 --    | 22     | 640   | 54     | △      | △      | 31   | 0.26   | <10   | <10   | 111   | △      | 88  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-13                | 221 --    | 28     | 970   | 22     | △      | △      | 39   | 0.17   | <10   | <10   | 111   | △      | 90  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-14                | 221 --    | 33     | 940   | 10     | △      | △      | 50   | 0.28   | <10   | <10   | 135   | △      | 66  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-15                | 221 --    | 33     | 710   | 18     | △      | △      | 27   | 0.32   | <10   | <10   | 121   | △      | 80  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-16                | 221 --    | 35     | 980   | 30     | △      | △      | 38   | 0.26   | <10   | <10   | 119   | △      | 102 | ----- | ----- | ----- | ----- | ----- | ----- |
| M-17                | 221 --    | 21     | 660   | 102    | △      | △      | 31   | 0.15   | <10   | <10   | 76    | △      | 76  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-18                | 221 --    | 30     | 990   | 10     | △      | △      | 27   | 0.29   | <10   | <10   | 124   | △      | 56  | ----- | ----- | ----- | ----- | ----- | ----- |
| M-20                | 221 --    | 29     | 960   | 8      | △      | △      | 60   | 0.25   | <10   | <10   | 126   | △      | 60  | ----- | ----- | ----- | ----- | ----- | ----- |

CERTIFICATION :

*Stuart Beckler*

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BRITISH COLUMBIA, CANADA V7J-1C1

PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8621810

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 1-A  
Tot. Pages: 1  
Date : 23-DEC-86  
Invoice # : I-8621810  
P.O. # : NONE

Project : V222 RACK W  
Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe %   | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Nb %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|------|--------|------|--------|--------|--------|
| 14833              | 221 —     | 2.14 | 1.2    | 840    | 20     | < 0.5  | < 2    | 1.19 | < 0.5  | 4      | 90     | 362    | 4.24   | < 10   | 0.24 | < 10   | 0.49 | 396    | < 1    | 0.08   |
| 14834              | 221 —     | 1.42 | 1.2    | 110    | < 10   | < 0.5  | < 2    | 0.40 | < 0.5  | 4      | 88     | 920    | 6.96   | < 10   | 0.03 | < 10   | 0.66 | 814    | < 1    | < 0.01 |
| 14835              | 221 —     | 0.86 | 1.4    | 930    | < 10   | < 0.5  | 16     | 1.79 | < 0.5  | 8      | 131    | 474    | 3.67   | < 10   | 0.04 | < 10   | 0.21 | 342    | < 1    | 0.08   |
| 14836              | 221 —     | 2.40 | 0.2    | 30     | 30     | < 0.5  | < 2    | 2.05 | < 0.5  | 12     | 64     | 78     | 3.28   | 10     | 0.21 | < 10   | 0.82 | 679    | < 1    | 0.11   |
| 14837              | 221 —     | 0.85 | 2.2    | 5      | < 10   | < 0.5  | < 2    | 2.92 | 1.5    | 102    | 67     | 1360   | >15.00 | < 10   | 0.02 | < 10   | 0.28 | 622    | 7      | < 0.01 |
| 14838              | 221 —     | 2.24 | 0.6    | < 5    | < 10   | < 0.5  | < 2    | 1.02 | 0.5    | 17     | 57     | 327    | 9.47   | 10     | 0.02 | 10     | 0.53 | 567    | 127    | 0.01   |
| 14839              | 221 —     | 1.05 | 1.8    | < 5    | 30     | < 0.5  | < 2    | 0.57 | < 0.5  | 20     | 97     | 229    | 3.93   | 10     | 0.18 | 10     | 0.11 | 142    | 44     | 0.04   |
| 14840              | 221 —     | 2.18 | 0.8    | 5      | 20     | < 0.5  | < 2    | 0.46 | 0.5    | 29     | 50     | 538    | 9.05   | 10     | 0.11 | 10     | 0.64 | 422    | 2      | 0.04   |
| GA SOIL M-1        | 221 —     | 3.15 | 0.2    | < 5    | 50     | < 0.5  | < 2    | 0.36 | < 0.5  | 15     | 27     | 81     | 4.29   | 20     | 0.04 | 10     | 0.44 | 582    | < 1    | 0.01   |

CERTIFICATION :

*Hart Buchler*





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## CERTIFICATE OF ANALYSIS A8621810

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 1-B  
Tot. Pages: 1  
Date : 23-DEC-86  
Invoice #: I-8621810  
P.O. #: NONE

Project: V222 RACK W  
Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Tl % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|
| 14833              | 221       | 4      | 830   | 60     | < 5    | 34     | 0.11 | < 10   | < 10  | 66    | < 5   | 58     |  |  |  |  |  |  |  |
| 14834              | 221       | 3      | 600   | 14     | < 5    | 22     | 0.08 | < 10   | < 10  | 54    | < 5   | 72     |  |  |  |  |  |  |  |
| 14835              | 221       | 7      | 380   | 24     | < 5    | 19     | 0.07 | < 10   | < 10  | 33    | < 5   | 36     |  |  |  |  |  |  |  |
| 14836              | 221       | 13     | 940   | 4      | < 5    | 16     | 0.26 | < 10   | < 10  | 98    | < 5   | 64     |  |  |  |  |  |  |  |
| 14837              | 221       | 18     | 350   | 10     | < 5    | < 1    | 0.06 | < 10   | < 10  | 54    | 390   | 60     |  |  |  |  |  |  |  |
| 14838              | 221       | 12     | 620   | 4      | < 5    | 72     | 0.16 | < 10   | < 10  | 143   | 150   | 36     |  |  |  |  |  |  |  |
| 14839              | 221       | 8      | 470   | 6      | < 5    | 80     | 0.25 | < 10   | < 10  | 60    | 10    | 8      |  |  |  |  |  |  |  |
| 14840              | 221       | 11     | 970   | 4      | < 5    | 22     | 0.16 | < 10   | < 10  | 94    | 10    | 34     |  |  |  |  |  |  |  |
| GA SOIL M-1        | 221       | 11     | 460   | 8      | < 5    | 18     | 0.26 | < 10   | < 10  | 115   | < 5   | 102    |  |  |  |  |  |  |  |

CERTIFICATION :

*Hart Buehler*



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BRITISH COLUMBIA, CANADA V7J-2C1  
PHONE (604) 984-0211

## CERTIFICATE OF ANALYSIS A8710119

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 1-A  
Tot. Pages: 1  
Date : 20-JAN-87  
Invoice # : I-8710119  
P.O. # : NONE

Project : RACK X1 V222  
Comments :

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca %   | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na % |
|--------------------|-----------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|------|
| AP 15012           | 221 238   | 0.26 | 0.2    | < 5    | 60     | < 0.5  | < 2    | 0.73   | < 0.5  | < 1    | 81     | 22     | 1.39 | < 10   | 0.13 | 60     | 0.04 | 282    | < 1    | 0.02 |
| AP 15013           | 221 238   | 0.47 | 0.2    | < 5    | 90     | < 0.5  | 4      | >15.00 | < 0.5  | 6      | 28     | 6      | 1.82 | < 10   | 0.09 | < 10   | 0.53 | 1720   | < 1    | 0.02 |
| AP 15014           | 221 238   | 1.39 | 0.2    | 20     | 10     | < 0.5  | 2      | 1.26   | < 0.5  | 10     | 140    | 70     | 1.32 | < 10   | 0.08 | < 10   | 0.31 | 324    | < 1    | 0.05 |
| AP 15015           | 221 238   | 2.31 | 0.2    | 80     | 10     | < 0.5  | 6      | 2.08   | < 0.5  | 27     | 92     | 656    | 3.45 | < 10   | 0.05 | < 10   | 0.47 | 559    | < 1    | 0.23 |
| AP 15016           | 221 238   | 1.20 | 0.4    | 145    | 10     | < 0.5  | 10     | 0.90   | < 0.5  | 49     | 119    | 437    | 2.00 | < 10   | 0.11 | < 10   | 0.11 | 219    | < 1    | 0.11 |
| AP 15017           | 221 238   | 1.30 | 3.2    | 150    | 10     | < 0.5  | 68     | 1.08   | 0.5    | 77     | 121    | 1275   | 3.70 | < 10   | 0.12 | < 10   | 0.15 | 203    | < 1    | 0.09 |

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*Hart Buchler*



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BRITISH COLUMBIA, CANADA V7J-2C1  
PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8710119

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 1-B  
Tot. Pages: 1  
Date : 20-JAN-87  
Invoice #: I-8710119  
P.O. #: NONE

Project : RACK XI V222  
Comments :

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %   | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--|--|--|--|--|--|
| AP 15012           | 221 238   | 3      | < 10  | 2      | < 5    | 34     | < 0.01 | < 10   | < 10  | < 1   | < 5   | 16     |  |  |  |  |  |  |
| AP 15013           | 221 238   | 7      | 240   | 18     | < 5    | 478    | < 0.01 | < 10   | < 10  | 6     | < 5   | 116    |  |  |  |  |  |  |
| AP 15014           | 221 238   | 11     | 280   | 10     | < 5    | 20     | 0.08   | < 10   | < 10  | 43    | < 5   | 24     |  |  |  |  |  |  |
| AP 15015           | 221 238   | 9      | 360   | < 2    | < 5    | 36     | 0.10   | < 10   | < 10  | 62    | < 5   | 48     |  |  |  |  |  |  |
| AP 15016           | 221 238   | 24     | 260   | 6      | < 5    | 26     | 0.05   | < 10   | < 10  | 54    | 190   | 20     |  |  |  |  |  |  |
| AP 15017           | 221 238   | 24     | 270   | 12     | 30     | 24     | 0.06   | < 10   | < 10  | 49    | 85    | 72     |  |  |  |  |  |  |

CERTIFICATION :

*Hart Bichler*



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers  
212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1  
PHONE (604) 984-0221

## CERTIFICATE OF ANALYSIS A8622447

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 1-A  
Tot. Pages: 1  
Date : 14-JAN-87  
Invoice #: I-8622447  
P.O. #: NONE

Project : V222 RACK N  
Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na %   |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|--------|
| 15301              | 221 238   | 2.82 | 0.4    | < 5    | 20     | < 0.5  | < 2    | 2.90 | < 0.5  | 20     | 22     | 48     | 5.08 | < 10   | 0.18 | < 10   | 2.12 | 1085   | < 1    | 0.02   |
| 15302              | 221 238   | 2.50 | 0.4    | < 5    | 50     | < 0.5  | < 2    | 2.97 | < 0.5  | 14     | 35     | 80     | 4.59 | < 10   | 0.21 | < 10   | 1.13 | 887    | < 1    | 0.06   |
| 15303              | 221 238   | 1.57 | 0.4    | < 5    | 60     | < 0.5  | < 2    | 4.96 | < 0.5  | 9      | 19     | 36     | 2.76 | < 10   | 0.29 | < 10   | 0.73 | 684    | < 1    | 0.01   |
| 15304              | 221 238   | 2.61 | 0.6    | < 5    | 50     | < 0.5  | < 2    | 2.67 | 0.5    | 15     | 32     | 93     | 5.07 | 10     | 0.15 | < 10   | 1.30 | 995    | < 1    | 0.05   |
| 15305              | 221 238   | 2.57 | 0.8    | < 5    | 70     | < 0.5  | < 2    | 3.10 | < 0.5  | 16     | 51     | 77     | 5.04 | 10     | 0.21 | < 10   | 1.26 | 965    | < 1    | 0.03   |
| 15306              | 221 238   | 3.02 | 0.4    | < 5    | 110    | < 0.5  | < 2    | 2.17 | 0.5    | 16     | 40     | 118    | 5.10 | 10     | 0.12 | < 10   | 1.30 | 994    | < 1    | 0.18   |
| 15307              | 221 238   | 3.17 | 0.4    | < 5    | 110    | < 0.5  | < 2    | 2.21 | < 0.5  | 13     | 38     | 100    | 4.18 | 10     | 0.33 | < 10   | 1.07 | 762    | < 1    | 0.31   |
| 15308              | 221 238   | 2.19 | 0.4    | < 5    | 20     | < 0.5  | < 2    | 2.63 | < 0.5  | 8      | 82     | 55     | 3.28 | < 10   | 0.13 | < 10   | 0.84 | 653    | < 1    | 0.15   |
| 15309              | 221 238   | 4.03 | 0.6    | < 5    | 370    | < 0.5  | < 2    | 2.62 | 0.5    | 14     | 32     | 119    | 4.55 | 10     | 0.73 | < 10   | 1.25 | 780    | < 1    | 0.40   |
| 15310              | 221 238   | 2.24 | 1.0    | < 5    | 50     | < 0.5  | < 2    | 2.24 | 0.5    | 19     | 65     | 525    | 6.04 | 10     | 0.16 | < 10   | 0.94 | 670    | 36     | 0.12   |
| 15311              | 221 238   | 2.85 | 0.4    | < 5    | 100    | < 0.5  | < 2    | 2.26 | < 0.5  | 14     | 31     | 119    | 4.30 | 10     | 0.35 | < 10   | 1.08 | 808    | < 1    | 0.21   |
| 15312              | 221 238   | 4.09 | 0.6    | < 5    | 140    | < 0.5  | < 2    | 2.12 | 0.5    | 15     | 49     | 113    | 4.38 | 10     | 0.33 | < 10   | 1.11 | 561    | < 1    | 0.50   |
| 15313              | 221 238   | 2.72 | 0.4    | < 5    | 20     | < 0.5  | < 2    | 3.19 | < 0.5  | 11     | 35     | 90     | 2.61 | 10     | 0.14 | < 10   | 0.54 | 470    | < 1    | 0.33   |
| 15314              | 221 238   | 3.83 | 0.6    | 10     | 130    | < 0.5  | < 2    | 1.84 | < 0.5  | 17     | 48     | 111    | 4.78 | 10     | 0.30 | < 10   | 1.22 | 622    | < 1    | 0.44   |
| 15315              | 221 238   | 3.65 | 0.6    | 15     | 60     | < 0.5  | < 2    | 2.64 | < 0.5  | 16     | 35     | 161    | 5.10 | 10     | 0.19 | < 10   | 1.16 | 603    | < 1    | 0.31   |
| 15316              | 221 238   | 4.84 | 0.4    | 5      | 140    | < 0.5  | < 2    | 2.39 | < 0.5  | 16     | 44     | 86     | 4.52 | 10     | 0.32 | < 10   | 1.30 | 598    | < 1    | 0.57   |
| 15317              | 221 238   | 3.48 | 0.2    | 5      | 50     | < 0.5  | < 2    | 2.33 | < 0.5  | 14     | 32     | 88     | 5.06 | 10     | 0.14 | < 10   | 1.39 | 803    | < 1    | 0.27   |
| 15318              | 221 238   | 3.50 | 0.6    | < 5    | 70     | < 0.5  | < 2    | 1.65 | < 0.5  | 14     | 29     | 73     | 4.59 | 10     | 0.14 | < 10   | 1.29 | 690    | < 1    | 0.32   |
| 15319              | 221 238   | 3.35 | 0.6    | 5      | 90     | < 0.5  | < 2    | 0.95 | < 0.5  | 16     | 25     | 86     | 4.88 | < 10   | 0.24 | < 10   | 1.29 | 686    | < 1    | 0.25   |
| 15320              | 221 238   | 4.34 | 0.6    | 5      | 160    | < 0.5  | < 2    | 1.99 | < 0.5  | 15     | 41     | 121    | 4.63 | 10     | 0.30 | < 10   | 1.22 | 557    | < 1    | 0.51   |
| 15321              | 221 238   | 3.91 | 0.4    | < 5    | 70     | < 0.5  | < 2    | 2.43 | < 0.5  | 14     | 28     | 97     | 4.94 | < 10   | 0.29 | < 10   | 1.32 | 751    | < 1    | 0.25   |
| 15322              | 221 238   | 1.85 | 0.6    | 40     | 50     | < 0.5  | 10     | 1.25 | < 0.5  | 7      | 84     | 100    | 2.05 | < 10   | 0.20 | < 10   | 0.51 | 335    | 1      | 0.20   |
| 15323              | 221 238   | 4.23 | 0.6    | 15     | 50     | < 0.5  | < 2    | 2.09 | < 0.5  | 17     | 34     | 65     | 4.93 | < 10   | 0.28 | < 10   | 1.40 | 793    | < 1    | 0.31   |
| 15324              | 221 238   | 2.06 | 0.4    | 265    | 40     | < 0.5  | 2      | 1.20 | < 0.5  | 10     | 90     | 169    | 2.57 | < 10   | 0.22 | < 10   | 0.48 | 342    | < 1    | 0.17   |
| 15325              | 221 238   | 2.62 | 0.4    | < 5    | 40     | < 0.5  | < 2    | 1.57 | < 0.5  | 9      | 30     | 68     | 3.25 | 10     | 0.19 | < 10   | 0.87 | 503    | < 1    | 0.24   |
| 15326              | 221 238   | 1.59 | 0.2    | < 5    | 10     | < 0.5  | < 2    | 1.64 | < 0.5  | 7      | 79     | 6      | 2.28 | < 10   | 0.09 | < 10   | 0.79 | 421    | < 1    | 0.07   |
| 15327              | 221 238   | 3.76 | 0.4    | < 5    | 60     | < 0.5  | < 2    | 3.32 | < 0.5  | 12     | 29     | 110    | 4.10 | < 10   | 0.19 | < 10   | 1.13 | 774    | < 1    | 0.31   |
| 15328              | 221 238   | 5.47 | 0.4    | < 5    | 320    | < 0.5  | < 2    | 3.10 | 0.5    | 13     | 44     | 197    | 4.60 | 10     | 0.85 | < 10   | 1.04 | 739    | < 1    | 0.63   |
| 15329              | 221 238   | 3.36 | 0.2    | < 5    | 20     | < 0.5  | < 2    | 2.57 | < 0.5  | 13     | 24     | 79     | 5.54 | 10     | 0.12 | < 10   | 1.43 | 1160   | < 1    | 0.14   |
| 15330              | 221 238   | 3.96 | 0.8    | < 5    | 40     | < 0.5  | < 2    | 2.90 | 0.5    | 16     | 26     | 172    | 5.31 | 20     | 0.18 | < 10   | 1.36 | 1030   | < 1    | 0.24   |
| 15331              | 221 238   | 2.31 | 0.4    | < 5    | 60     | < 0.5  | < 2    | 1.71 | < 0.5  | 4      | 49     | 14     | 1.96 | < 10   | 0.22 | < 10   | 0.49 | 502    | < 1    | 0.34   |
| 15010              | 221 238   | 1.29 | 2.4    | 360    | 10     | < 0.5  | 26     | 0.97 | < 0.5  | 52     | 112    | 708    | 3.28 | < 10   | 0.10 | < 10   | 0.28 | 272    | < 1    | 0.11   |
| 15011              | 221 238   | 0.64 | 0.8    | 35     | < 10   | < 0.5  | 2      | 1.01 | < 0.5  | 16     | 156    | 578    | 1.61 | < 10   | 0.01 | < 10   | 0.04 | 96     | < 1    | < 0.01 |

RECEIVED JAN 23 1987

CERTIFICATION :

*P. Campbell*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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 BRITISH COLUMBIA, CANADA V7J-2C1  
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## CERTIFICATE OF ANALYSIS A8622447

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
 BURNABY, B.C.  
 V5B 3N1

Page No. : 1-B  
 Tot. Pages: 1  
 Date : 14-JAN-87  
 Invoice #: I-8622447  
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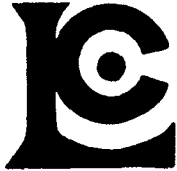
Project : V222 RACK N

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %   | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--|--|--|--|--|--|
| 15301              | 221 238   | 13     | 1170  | 4      | < 5    | 42     | < 0.01 | < 10   | < 10  | 99    | < 5   | 74     |  |  |  |  |  |  |
| 15302              | 221 238   | 13     | 690   | 2      | < 5    | 44     | 0.08   | < 10   | < 10  | 89    | < 5   | 68     |  |  |  |  |  |  |
| 15303              | 221 238   | 7      | 810   | < 2    | < 5    | 48     | 0.09   | < 10   | < 10  | 43    | < 5   | 46     |  |  |  |  |  |  |
| 15304              | 221 238   | 11     | 1000  | < 2    | < 5    | 45     | 0.26   | < 10   | < 10  | 122   | < 5   | 82     |  |  |  |  |  |  |
| 15305              | 221 238   | 13     | 680   | 4      | < 5    | 63     | 0.25   | < 10   | < 10  | 119   | < 5   | 78     |  |  |  |  |  |  |
| 15306              | 221 238   | 11     | 1130  | 2      | < 5    | 85     | 0.27   | < 10   | < 10  | 146   | < 5   | 82     |  |  |  |  |  |  |
| 15307              | 221 238   | 7      | 1050  | 4      | < 5    | 134    | 0.25   | < 10   | < 10  | 117   | < 5   | 74     |  |  |  |  |  |  |
| 15308              | 221 238   | 5      | 450   | < 2    | < 5    | 73     | 0.13   | < 10   | < 10  | 58    | < 5   | 72     |  |  |  |  |  |  |
| 15309              | 221 238   | 9      | 1420  | 6      | < 5    | 174    | 0.34   | < 10   | < 10  | 147   | < 5   | 82     |  |  |  |  |  |  |
| 15310              | 221 238   | 9      | 760   | 4      | < 5    | 59     | 0.24   | < 10   | < 10  | 94    | < 5   | 72     |  |  |  |  |  |  |
| 15311              | 221 238   | 8      | 1220  | 6      | < 5    | 96     | 0.28   | < 10   | < 10  | 122   | < 5   | 68     |  |  |  |  |  |  |
| 15312              | 221 238   | 10     | 820   | 6      | < 5    | 176    | 0.27   | < 10   | < 10  | 139   | < 5   | 68     |  |  |  |  |  |  |
| 15313              | 221 238   | 7      | 2510  | 2      | < 5    | 154    | 0.23   | < 10   | < 10  | 60    | < 5   | 46     |  |  |  |  |  |  |
| 15314              | 221 238   | 14     | 910   | 8      | < 5    | 167    | 0.30   | < 10   | < 10  | 151   | < 5   | 84     |  |  |  |  |  |  |
| 15315              | 221 238   | 12     | 760   | 8      | < 5    | 146    | 0.21   | < 10   | < 10  | 129   | < 5   | 72     |  |  |  |  |  |  |
| 15316              | 221 238   | 12     | 910   | 6      | < 5    | 227    | 0.23   | < 10   | < 10  | 151   | < 5   | 80     |  |  |  |  |  |  |
| 15317              | 221 238   | 9      | 1030  | 4      | < 5    | 107    | 0.25   | < 10   | < 10  | 136   | < 5   | 76     |  |  |  |  |  |  |
| 15318              | 221 238   | 7      | 1020  | 6      | < 5    | 120    | 0.21   | < 10   | < 10  | 128   | < 5   | 66     |  |  |  |  |  |  |
| 15319              | 221 238   | 10     | 1070  | 4      | < 5    | 99     | 0.06   | < 10   | < 10  | 125   | < 5   | 78     |  |  |  |  |  |  |
| 15320              | 221 238   | 10     | 1000  | 2      | < 5    | 191    | 0.25   | < 10   | < 10  | 156   | < 5   | 76     |  |  |  |  |  |  |
| 15321              | 221 238   | 9      | 930   | 2      | < 5    | 106    | 0.27   | < 10   | < 10  | 137   | < 5   | 68     |  |  |  |  |  |  |
| 15322              | 221 238   | 7      | 750   | 4      | < 5    | 57     | 0.16   | < 10   | < 10  | 80    | < 5   | 22     |  |  |  |  |  |  |
| 15323              | 221 238   | 12     | 1650  | < 2    | < 5    | 116    | 0.33   | < 10   | < 10  | 162   | < 5   | 66     |  |  |  |  |  |  |
| 15324              | 221 238   | 6      | 650   | 8      | < 5    | 40     | 0.14   | < 10   | < 10  | 72    | < 5   | 36     |  |  |  |  |  |  |
| 15325              | 221 238   | 3      | 1010  | 4      | < 5    | 81     | 0.24   | < 10   | < 10  | 83    | < 5   | 62     |  |  |  |  |  |  |
| 15326              | 221 238   | 11     | 670   | 2      | < 5    | 53     | 0.14   | < 10   | < 10  | 47    | < 5   | 34     |  |  |  |  |  |  |
| 15327              | 221 238   | 6      | 1790  | 6      | < 5    | 123    | 0.27   | < 10   | < 10  | 105   | < 5   | 70     |  |  |  |  |  |  |
| 15328              | 221 238   | 8      | 860   | 6      | < 5    | 299    | 0.30   | < 10   | < 10  | 118   | < 5   | 66     |  |  |  |  |  |  |
| 15329              | 221 238   | 7      | 1120  | 2      | < 5    | 86     | 0.28   | < 10   | < 10  | 136   | < 5   | 72     |  |  |  |  |  |  |
| 15330              | 221 238   | 7      | 1940  | 6      | < 5    | 140    | 0.41   | < 10   | < 10  | 158   | < 5   | 80     |  |  |  |  |  |  |
| 15331              | 221 238   | 4      | 1340  | 4      | < 5    | 105    | 0.15   | < 10   | < 10  | 33    | < 5   | 32     |  |  |  |  |  |  |
| 15010              | 221 238   | 20     | 340   | 26     | < 5    | 22     | 0.06   | < 10   | < 10  | 51    | < 5   | 48     |  |  |  |  |  |  |
| 15011              | 221 238   | 10     | 30    | 36     | < 5    | 2      | < 0.01 | < 10   | < 10  | 19    | 105   | 12     |  |  |  |  |  |  |

CERTIFICATION :

*P. Lang*



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## CERTIFICATE OF ANALYSIS A8622613

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
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Page No. : 4-A  
 Tot. Pages: 4  
 Date : 20-JAN-87  
 Invoice # : I-8622613  
 P.O. # : NONE

Project : V222 RACK V

Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na % |
|--------------------|-----------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|------|--------|------|--------|--------|------|
| 15346              | 221 238   | 2.67 | < 0.2  | < 5    | 100    | < 0.5  | 2      | 1.98 | < 0.5  | 13     | 36     | 97     | 4.75 | < 10   | 0.40 | 10     | 1.33 | 1080   | < 1    | 0.10 |
| 15347              | 221 238   | 2.83 | < 0.2  | 5      | 220    | < 0.5  | < 2    | 1.44 | < 0.5  | 14     | 26     | 130    | 3.09 | < 10   | 0.61 | 10     | 1.38 | 1035   | < 1    | 0.15 |
| 15348              | 221 238   | 4.52 | < 0.2  | < 5    | 110    | < 0.5  | 18     | 2.25 | < 0.5  | 17     | 30     | 658    | 7.14 | < 10   | 0.41 | 10     | 1.49 | 603    | < 1    | 0.46 |
| 15349              | 221 238   | 2.99 | < 0.2  | 10     | 40     | < 0.5  | < 2    | 2.22 | < 0.5  | 5      | 65     | 92     | 1.86 | < 10   | 0.14 | < 10   | 0.45 | 435    | < 1    | 0.37 |
| 15350              | 221 238   | 3.74 | < 0.2  | 120    | 60     | < 0.5  | 6      | 2.42 | < 0.5  | 8      | 53     | 200    | 3.08 | < 10   | 0.19 | < 10   | 0.69 | 321    | < 1    | 0.39 |

CERTIFICATION :

*Hart Bichler*



# Chemex Labs Ltd.

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## CERTIFICATE OF ANALYSIS A8622613

To: ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

Page No. : 4-B  
Tot. Pages: 4  
Date : 20-JAN-87  
Invoice #: I-8622613  
P.O. #: NONE

Project : V222 RACK V  
Comments: ATTN: P. ROSSBACHER

| SAMPLE DESCRIPTION | PREP CODE | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |  |  |  |  |  |  |  |  |
|--------------------|-----------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|--|--|--|--|--|--|--|--|
| 15346              | 221 238   | 5      | 1930  | < 2    | < 5    | 49     | 0.32 | < 10   | < 10  | 133   | < 5   | 82     |  |  |  |  |  |  |  |  |
| 15347              | 221 238   | 5      | 1950  | < 2    | < 5    | 64     | 0.32 | < 10   | < 10  | 142   | < 5   | 86     |  |  |  |  |  |  |  |  |
| 15348              | 221 238   | 7      | 1880  | < 2    | < 5    | 144    | 0.28 | < 10   | < 10  | 145   | < 5   | 70     |  |  |  |  |  |  |  |  |
| 15349              | 221 238   | 2      | 1920  | 2      | < 5    | 94     | 0.10 | < 10   | < 10  | 96    | < 5   | 28     |  |  |  |  |  |  |  |  |
| 15350              | 221 238   | 5      | 1650  | 6      | < 5    | 99     | 0.12 | < 10   | < 10  | 129   | 25    | 40     |  |  |  |  |  |  |  |  |

CERTIFICATION : Hart Buchler



**APPENDIX IV**

**SOIL GEOCHEMISTRY STATISTICS**





APPENDIX V

DIAMOND DRILL LOGS

PROJECT: MIKE V222-III

DIAMOND DRILL DATA

| HOLE NO. | DRILLER | LATITUDE | DEPARTURE | ELEVATION | HOLE LENGTH (m) | DIP     | AZIMUTH | CASING DEPTH (m) | CORE SIZE | DATE STARTED | DATE COMPLETED | DOWN-HOLE SURVEY / REMARKS (LENGTH/DIP/AZI) TYPE: PAJARI |
|----------|---------|----------|-----------|-----------|-----------------|---------|---------|------------------|-----------|--------------|----------------|----------------------------------------------------------|
| M86-1    | Roger's | 0+28S    | 0+00E     | ~780      | 53.34           | -46 1/2 | 332     | 4                | BQ        | Dec. 09/86   | Dec. 12/86     | 51.82m / -45 / 338                                       |
| M86-2    | Roger's | 0+25S    | 0+01E     | ~780      | 40.23           | -45     | 018     | 3.15             | BQ        | Dec. 12/86   | Dec. 13/86     | 38.7m / -42 / 020                                        |
| M86-3    | Roger's | 0+31S    | 0+01W     | ~780      | 78.33           | -46     | 308     | 3.3              | BQ        | Dec. 14/86   | Dec. 16/86     | 76.8m / -43 / 304                                        |
| M87-1    | Roger's | 2+36N    | 1+11E     | ~655      | 181.35          | -46 1/2 | 200     | 2.0              | BQ        | Jan. 08/87   | Jan. 12/87     | No test. Hole making water and couldn't get tool down.   |
| Total    |         |          |           |           | 353.25          |         |         |                  |           |              |                |                                                          |





ABBREVIATIONS

MINERALS

|          |               |
|----------|---------------|
| AB       | Albite        |
| AS       | Arsenopyrite  |
| CB, CARB | Carbonate     |
| CP       | Chalcopyrite  |
| CHL      | Chlorite      |
| CZ       | Chlinozoisite |
| DI       | Diopside      |
| EP       | Epidote       |
| FSP      | Feldspar      |
| GL       | Galena        |
| GT       | Garnet        |
| HM       | Hematite      |
| HB       | Hornblende    |
| LEUC     | Leucoxene     |
| MT       | Magnetite     |
| MC       | Malachite     |
| PLAG     | Plagioclase   |
| PY       | Pyrite        |
| PX       | Pyroxene      |
| PO       | Pyrrhotite    |
| QZ       | Quartz        |
| SER      | Sericite      |
| SL       | Sphalerite    |

LITHOLOGY

|          |                                 |
|----------|---------------------------------|
| ARG      | Argillite                       |
| BAS      | Basalt                          |
| CARB     | Carbonate                       |
| CHT      | Chert                           |
| XLT      | Crystal Tuff                    |
| DIAB     | Diabase                         |
| DIOR     | Diorite                         |
| FHP      | Feldspar Hornblende<br>Porphyry |
| FBX      | Flow Breccia                    |
| GABB     | Gabbro                          |
| HYAL     | Hyaloclastite                   |
| LMST     | Limestone                       |
| MAF      | Mafic (Basalt,<br>Andesite)     |
| QFP      | Quartz Feldspar<br>Porphyry     |
| SDST     | Sandstone                       |
| STST     | Siltstone                       |
| SKN      | Skarn                           |
| VN, VNLT | Vein, Veinlet                   |

COLOUR

|         |       |
|---------|-------|
| BLK     | Black |
| BLU     | Blue  |
| BRN, BN | Brown |
| GN      | Green |
| GY      | Gray  |
| OL      | Olive |
| RD      | Red   |
| WHT     | White |

TEXTURES AND ALTERATION

|            |                         |
|------------|-------------------------|
| ALT'D      | Altered                 |
| AMYG'L     | Amygdaloidal            |
| ANG        | Angular                 |
| ANH        | Anhedral                |
| BDD        | Bedded                  |
| EX'D, EX'N | Brecciated, Brecciation |
| CHTY       | Cherty                  |
| CHL'C      | Chloritic               |
| XLLINE     | Crystalline             |
| DISS       | Disseminated            |
| EP'C       | Epidotitic              |
| EUH        | Euhedral                |
| FG         | Fine Grained            |
| MG         | Medium Grained          |
| CG         | Coarse Grained          |
| GRAD       | Gradational             |
| HM'C       | Hematitic               |
| PY'C       | Pyritic                 |
| RDD        | Rounded                 |
| LAM'D      | Laminated               |
| MSV        | Massive                 |
| MED        | Medium (Bedded), 2-10mm |
| P          | Porphyry, Phyrlic       |
| SER'C      | Sericitic               |
| SIL, SIL'D | Siliceous, Silicified   |
| SUB-ANG    | Sub Angular             |
| SBH        | Subhedral               |
| TK         | Thick (Bedded), >10mm   |
| VES        | Vesicular               |

GENERAL

|            |                       |
|------------|-----------------------|
| ABDT       | Abundant              |
| AMYG       | Amygdule              |
| AV         | Average               |
| BDG        | Bedding               |
| BX         | Breccia               |
| BC         | Broken Ground         |
| CMT        | Cement                |
| CM         | Chill Margin          |
| XL         | Crystal               |
| CT         | Contact               |
| CA         | Core Axis             |
| Ø, DIA     | Diameter              |
| FRCR       | Fracture              |
| GO         | Gouge                 |
| GND        | Ground                |
| GM         | Groundmass            |
| LAM        | Laminated             |
| MOD        | Moderate              |
| NIWK       | Network               |
| PHENO      | Phenocryst            |
| QCV        | Quartz Carbonate Vein |
| QV         | Quartz Vein           |
| SHR        | Shear                 |
| STG        | Stringer              |
| STR, STRLY | Strong, Strongly      |
| SX         | Sulphides             |
| W, w̄, W/  | With                  |



| From - To<br>meters | Lithology                                                                                                                                                                                               | Alteration | Mineralization/Sulphides/Structure/<br>Core Condition | Sample<br>No. | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------|---------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| 7.62 - 10.48        | SILTSTONE (?)                                                                                                                                                                                           |            | 7.62-10.48                                            |               |                         |           |           |           |           |           |
|                     | M gn-gy, mod soft, v.f.g. sheared siltstone. (?)                                                                                                                                                        |            | <1% py, diss - frcr                                   |               |                         |           |           |           |           |           |
|                     | Few small, dark gray bands (bds?) up to 1cm thick ag 30° to CA. Rock aprons to be cleared and re-healed. Shearing 60° CA. Whole interval weakly shattered and healed with hairline carbonate stringers. |            |                                                       | 015302        | 7.62-9.01               | 1.39      | 5         | 0.4       | 80        | <5        |
|                     | 9.07-9.12 - White qz. carb flooded breccia zone. Minor py on frcr surface. 70° CA.                                                                                                                      |            |                                                       | 015303        | 9.01-9.2                | 0.19      | 5         | 0.4       | 36        | <5        |
|                     |                                                                                                                                                                                                         |            |                                                       | 015304        | 9.2-10.48               | 1.28      | 5         | 0.6       | 93        | <5        |
| 10.48 - 16.7        | INNER-BEDED SILSTONE AND SANDSTONE                                                                                                                                                                      |            |                                                       |               |                         |           |           |           |           |           |
|                     |                                                                                                                                                                                                         | 10.48-16.7 | 10.48-16.7                                            |               |                         |           |           |           |           |           |
|                     | Dk gy to redy brn, f. to m.g. sdst with sub ang to sub-rdd grains (of?). Altered to a lt gn-gy in irreg patches several cm wide and along hairline frcrs.                                               | mod. sil.  | -tr po in frcrs + diss.<br>-ABDT hairline frcrs       | 015305        | 10.48-10.67             | 0.19      | 5         | 0.8       | 77        | <5        |
|                     | Stst beds up to 10cm thick, approx. 10% of interval. Stst - dk gy, v.f.g., bedded at 45° to CA.                                                                                                         |            |                                                       | 015306        | 10.67-12.0              | 1.33      | 5         | 0.4       | 118       | <5        |
|                     | 13.75 - 1/2cm qz. carb str. 2% PO                                                                                                                                                                       |            |                                                       | 015307        | 12.0-13.72              | 1.72      | 5         | 0.4       | 100       | <5        |
|                     |                                                                                                                                                                                                         |            |                                                       | 015308        | 13.72-13.9              | 0.18      | 5         | 0.4       | 55        | <5        |
|                     | 15.0-15.3 - Weak carb. flooded bx zone with 5% PO + <u>1</u> 1% CP frcr filling. Vague frcr orientation ~60° CA.                                                                                        |            | 13.75-stringer 25° CA                                 | 015309        | 13.9-15.0               | 1.10      | 5         | 0.6       | 119       | <5        |
|                     |                                                                                                                                                                                                         |            | 15.0-15.3 - PO ~5%<br><1% CP                          | 015310        | 15.0-15.3               | 0.30      | 5         | 1.0       | 525       | <5        |
|                     |                                                                                                                                                                                                         |            |                                                       | 015311        | 15.3-16.76              | 0.46      | 5         | 0.4       | 119       | 5         |

| From - To<br>meters | Lithology                                                                                                                                          | Alteration | Mineralization/Sul<br>phides/Structure/<br>Core Condition | No.    | Interval<br>m | Lgth<br>m | ppb - or<br>ppb/oz/T | ppm | ppm | ppm |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------|--------|---------------|-----------|----------------------|-----|-----|-----|
| 16.7 - 18.9         | SANDSTONE<br>F. to M.G. dk ruddy bn to m. gn-gy massive<br>to thinly laminated sdst. Bedding ~30° CA.<br>lt gn gy alt. halo around hairline frcrs. |            | 16.7-18.9<br>Tr PO<br>ABDT hairline frcrs                 |        |               |           |                      |     |     |     |
| 18.9 - 21.47        | SILTSTONE (TO ARGILLITE)<br>v.f.g., dk gy, mod sil, massive to thinly<br>lam. (bdding ~25° CA)                                                     |            |                                                           |        |               |           |                      |     |     |     |
|                     | 20.28-21.05 - Frcr zone. Minor go. along<br>frcrs at 46° to CA. 2-3mm vuggy qz stringer<br>at 45° CA with 5% Po                                    |            | 20.28-21.05                                               | 015312 | 20.28-21.05   | 0.77      | 5                    | 0.6 | 113 | <5  |
| 21.47 - 24.4        | SANDSTONE<br>F. - CG dk ruddy brn to m. gn-gy sdst with<br>minor dk gy stst (to argillite?) layers.                                                |            |                                                           |        |               |           |                      |     |     |     |
|                     | 23.2-23.5 - graded bed suggesting strati-<br>graphic tops up hole. Bedding ~45° CA.                                                                |            |                                                           |        |               |           |                      |     |     |     |
|                     | 23.67-23.96 - 2-3mm (2@) qz flooded frcrs<br>with 5% Po. 30° + 70° to CA.                                                                          |            |                                                           | 015313 | 23.67-23.96   | 0.29      | 5                    | 0.4 | 90  | <5  |
| 24.4 - 34.4         | SILTSTONE (ARGILLITE?)<br>Dk gy-bk, mod sil, v.f.g. stst (to argillite)<br>with thin laminations to 2mm of f.g. sdst<br>at 20° to CA.              |            |                                                           | 015314 | 24.4-25.48    | 1.08      | 5                    | 0.6 | 111 | 10  |
|                     |                                                                                                                                                    |            |                                                           | 015315 | 25.48-26.60   | 1.12      | 5                    | 0.6 | 161 | 15  |



| From - To<br>meters       | Lithology                                                                                                                                                                                                                                                                                                  | Alteration | Mineralization/Sulphides/Structure/<br>Core Condition | Sample<br>No. | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------|---------------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
| 35.46 - 36.7<br>(Cont'd.) | gn-gy gm with ruddy bn, angular rip-up clasts (?) to 1 cm long. Frct'd 20° to sub-parallel CA.                                                                                                                                                                                                             |            |                                                       | 015324        | 36.5 - 36.7             | 0.2       | 0.03/920                   | 0.4       | 169       | 265       |
|                           | 36.5-36.63 - MAIN VEIN, Solid blu-gy qz with: 2.3% f.g. diss py - tr CP - tr AS ~5% masses to 3mm of f.g. soft black material.<br>Vein at 60° to CA.<br>Or-bn carb along frctrs.                                                                                                                           |            |                                                       |               |                         |           |                            |           |           |           |
| 36.7 - 38.57              | SILICIFIED SANDSTONE<br>Light-dk gy sil, sdst. Abdt frctrs 30° to CA. Qz stringers 1-2mm with 1-5% PO.                                                                                                                                                                                                     |            |                                                       | 015325        | 36.7 - 38.57            | 1.87      | 5                          | 04        | 68        | <5        |
| 38.57 - 39.98             | QUARTZ - FELDSPAR PORPHYRY<br>Dk gy, f.g., sil grn with: -10% rdd, gy qz phenos to 2mm. -25% subhedral to rdd, stubby wht fsp phenos to 3mm (av 1-2mm). 5% subhedral, <1mm Hb phenos. Upper contact at 25° CA with slight C.M. No obvious alteration in host. Lower contact ~30°. Slight shearing in host. |            |                                                       | 015326        | 38.57-39.98             | 1.41      | 5                          | 0.2       | 6         | <5        |
| 39.98 - 43.93             | SILTSTONE (TO ARGILLITE)<br>Dk gy to gy-blk bdd stst and minor f.g. sdst.                                                                                                                                                                                                                                  |            |                                                       | 015327        | 39.98-40.5              | 0.52      | 5                          | 0.4       | 110       | <5        |



| From - To<br>meters        | Lithology                                                                                                                                                     | Alteration                | Mineralization/Sulfides/Structure/<br>Core Condition | Sample<br>No. | Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------|---------------|---------------|-----------|----------------------------|-----------|-----------|-----------|
| 39.98 - 43.93<br>(Cont'd.) | 40.3-40.34 - F.G. qtz flooded zone<br>~30° to CA. 5% PO, tr CP.<br><br>41.61 - Qz flooded frer at 60° to CA.<br>0.5cm with 50% PO, 5% CP, 5% PY               |                           |                                                      |               |               |           |                            |           |           |           |
|                            |                                                                                                                                                               |                           |                                                      | 015328        | 41.52-41.75   | 0.23      | 5                          | 0.4       | 197       | <5        |
| 43.93 - 44.6               | QUARTZ - FELDSPAR PORPHYRY<br>As 38.57-39.98 sharp contact ~30° CA.                                                                                           |                           |                                                      |               |               |           |                            |           |           |           |
| 44.6 - 51.45               | SILTSTONE<br>Dk to light blu-gy (predom dk) sil stst<br>Vague bedding 45° CA.                                                                                 | 44.6-51.45 mod sil.       |                                                      |               |               |           |                            |           |           |           |
|                            | 45.55-45.60 - Carb flooded breccia zone.                                                                                                                      |                           |                                                      | 015329        | 45.5-45.67    | 0.17      | 5                          | 0.2       | 79        | <5        |
|                            | 47.84-48.06 - 3mm qzt stringer at 30°<br>to CA. Barren                                                                                                        |                           |                                                      | 015330        | 47.84-48.25   | 0.41      | 5                          | 0.8       | 172       | <5        |
| 51.45 - 53.34              | SANDSTONE<br>Mottled light gy to dk gn-gy silicified<br>f. to m.g. sandstone and siltstone<br><br>52.44 - 1cm tight qz str at 60° CA<br>Tr CP..<br><br>E.O.H. | 51.45-53.34 strongly sil. |                                                      |               |               |           |                            |           |           |           |
|                            |                                                                                                                                                               |                           |                                                      | 015331        | 52.26-52.78   | 0.52      | 5                          | 0.4       | 14        | <5        |

|                        |                   |                     |                           |                           |                           |
|------------------------|-------------------|---------------------|---------------------------|---------------------------|---------------------------|
| MPH CONSULTING LIMITED | Length (m): 40.23 | Grid : Mike         | Drilled : 12/12-13/86     | Objective: To test quartz | Hole No. M 86-2           |
| MIKE PROJECT           | Dip : 45°         | Latitude : 0 + 25S  | Contractor : Roger's      | vein in trench on S11A    | Hole Survey Type : Pajari |
| Project No. V222-III   | Azimuth : 018°    | Departure : 0 + 01E | Logged by : G. Roste      |                           | Depth Dip Azi             |
| INTERNATIONAL CHEROKEE | Core Size : BQ    | Collar elev.: ~780m | Date logged : 12/14-15/86 |                           | 38.7m -42° 020°           |
|                        | Casing: BW        | Remarks :           |                           |                           |                           |

| From - To<br>meters | Lithology                                                                                                                                                       | Alteration                         | Mineralization/Sul-<br>phides/Structure/<br>Core Condition | Sample<br>No.                 | Interval<br>m                                         | Length<br>m                  | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm                 | Cu<br>ppm               | As<br>ppm            |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------|-------------------------------|-------------------------------------------------------|------------------------------|----------------------------|---------------------------|-------------------------|----------------------|
| 0-3.15              | CASING                                                                                                                                                          |                                    |                                                            |                               |                                                       |                              |                            |                           |                         |                      |
| 3.15 - 3.35         | SILTSTONE<br>blk to lt gn, brecciated.                                                                                                                          |                                    |                                                            |                               |                                                       |                              |                            |                           |                         |                      |
| 3.35 - 6.40         | DIABASE<br>20% sub-euhedral wh fsp xtals <2mm. tr Po                                                                                                            |                                    | 5.18-6.40, 44% recovery                                    | 15332                         | 3.15-6.40                                             | 3.25                         | 5                          | <0.2                      | 53                      | 5                    |
| 6.40 - 9.45         | SILTSTONE - FAULT ZONE<br>lt gn. <1% py, strly broken core from a<br>shear zone. bdg destroyed.                                                                 | 6.40-9.45, strong chl <sup>c</sup> | 6.40-9.45, 45% recovery                                    | 15333<br>15334                | 6.40-8.53<br>8.53-9.45                                | 2.13<br>0.92                 | 5<br>5                     | <0.2<br><0.2              | 77<br>58                | <5<br>5              |
| 9.45 - 9.94         | SILTSTONE<br>lt gn, bdg destroyed. Calcite vn's<br>parallel to CA. (also calcite blebs < 7mm ).<br>Rock is more competent than fault zone<br>but still sheared. | 9.45-9.94, strong chl <sup>c</sup> |                                                            | 15335<br>1407<br>1408<br>1409 | 9.45-9.94<br>9.94-11.28<br>11.28-13.04<br>13.04-14.34 | 0.49<br>1.34<br>1.76<br>1.30 | 5<br>5<br>5<br>5           | <0.2<br>0.2<br>0.2<br>0.2 | 112<br>128<br>86<br>109 | 10<br>15<br>5<br>0.2 |
| 9.94 - 10.37        | SILTSTONE<br>lt gn siltstone w/minor blk silt/arg.<br>interbedded. Arg < 2cm thick B.C.A.: 33°,<br>calcite stg 2mm thick 30° to CA.,<br>minor bxn.              | 9.94-10.37, wk chl                 | 9.94-10.37, Py <1%                                         |                               |                                                       |                              |                            |                           |                         |                      |

| From - To<br>meters | Lithology                                                                                                                                                     | Alteration           | Mineralization/Sul-<br>phides/Structure/<br>Core Condition | Sample<br>No. | Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------|---------------|---------------|-----------|----------------------------|-----------|-----------|-----------|
| 10.37 - 11.13       | SILTSTONE<br>lt gn siltstone, no bdg visible. Calcite<br>stg < 5mm thick @ 5° to CA. More<br>at 51°, 48°, to CA.                                              | 10.37-11.13 wk chl   | 10.37-11.13 Py <1%                                         |               |               |           |                            |           |           |           |
| 11.13 - 13.93       | SILTSTONE<br>interbdd. lt gn siltstone and blk silt/<br>arg. BCA: 45°, 53° mod. fractured<br>on bd planes w/calcite in fractures,<br>wk bxn.                  | 11.13-13.93 wk chl   |                                                            |               |               |           |                            |           |           |           |
| 13.93 - 15.16       | SILTSTONE<br>blk massive, minor calcite stg's < 1mm<br>25° to CA., bd 35° to CA.<br>*note: Siliceous zone 4cm thick at 14.45m.<br>37° BCA. milky wht w/3% Rb. |                      | 14.41-14.47 Po 3%                                          | 15336         | 14.34-14.59   | 0.25      | 5                          | <0.2      | 107       | 5         |
| 15.16 - 15.85       | SILTSTONE<br>lt gn siltstone w/ earthy rd sections<br>bx'd. Qz stg's < 2m - 59°, 30° to CA.<br><5% Rb.                                                        | 15.16-15.85 mod sil  | 15.16-15.85<br><5% Po in qz stg's                          | 15337         | 15.16-15.85   | 0.69      | 5                          | <0.2      | 114       | 5         |
| 15.85 - 16.76       | SILTSTONE<br>as above but more bxn and sil alt.<br>trace of sx only.                                                                                          | 15.85-16.75 str. sil |                                                            | 15338         | 15.85-16.76   | 0.91      | 5                          | <0.2      | 119       | 10        |

| From - To<br>meters | Lithology                                                                                                                                                             | Alteration                                                | Mineralization/Sul-<br>phides/Structure/<br>Core Condition | Sample<br>No. | Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|---------------|---------------|-----------|----------------------------|-----------|-----------|-----------|
| 16.76 - 17.98       | SILTSTONE<br>lt gn bedded siltstone w/ minor bxn,<br>27°, 29° BCA.<br>*17.90m - wht oval and elongate blebs<br>(xtals?) < 5mm long in a lighter gn<br>bed ~2cm thick. | 16.76-17.98 mod sil                                       |                                                            |               |               |           |                            |           |           |           |
| 17.98 - 18.90       | SILTSTONE<br>as above but highly broken.                                                                                                                              | 17.98-18.90 mod sil                                       | 18.90-19.99 42% recovery                                   |               |               |           |                            |           |           |           |
| 18.90 - 19.99       | SILTSTONE<br>maroon colour. Minor Qz st's < 2mm,<br>33°, 45° to CA.                                                                                                   | 18.90-19.99 mod sil                                       | <5% Pb in Qz stg's                                         |               |               |           |                            |           |           |           |
| 19.99 - 20.41       | SILTSTONE<br>lt gn w/ Qz stg's. large stg lcn thick,<br>26° to CA. Minor bd's of coarser<br>material. 35° BCA.                                                        | 19.99-20.41 mod sil                                       | 19.99-20.41 Pb blebs in<br>Qz <3% of stg's                 | 15339         | 19.99-20.41   | 0.42      | 5                          | <0.2      | 112       | 10        |
| 20.41 - 20.84       | SILTSTONE<br>maroon, small <5mm Qz stringers<br>40°, 56° to CA. minor Pb.                                                                                             | 20.41-20.84 sil on<br>fracture planes, alt<br>halo < 5mm. | 20.41-20.84 Pb < 3% in Qz<br>stg's                         | 15340         | 20.41-20.84   | 0.43      | 5                          | <0.2      | 119       | <5        |
| 20.84 - 21.49       | SILTSTONE<br>lt gn some reddish lenses, minor bxn.<br>BCA: 18°. Qz st'gs: 31° to<br>CA, < 2mm minor Pb.                                                               |                                                           | 20.84-21.49 < 2% Pb                                        | 15341         | 20.84-21.49   | 0.65      | 30                         | <0.2      | 146       | 10        |

| From - To<br>meters | Lithology                                                                                                                                                        | Alteration                                             | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                                                   | Sample<br>No. | Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------|---------------|-----------|----------------------------|-----------|-----------|-----------|
| 21.49 - 23.14       | SILTSTONE<br>maroon siltstone w/ minor lt gn<br>v.f.g. sdst lenses. bdg distorted but<br>~ parallel to CA. Minor Qz stg's W<br>≤ 30% Po @ 45° to CA. Stgs ≤ 5mm. | 21.49-23.14 sil alt<br>envelopes <3mm on<br>fractures. | 21.49-23.14 Po ≤ 30% in Qz<br>stg's                                                                          |               |               |           |                            |           |           |           |
| 23.14 - 23.87       | SILTSTONE<br>Maroon + lt gn siltstone Qz blebs<br>≤ 1cm + stg's 5mm thick at 77°,<br>59°, 15° to CA. BCA: 7°.                                                    | 23.14-23.87, wk sil on<br>fracture planes              | 23.14-23.87, Po ≤ 25%<br>in stg's                                                                            | 15342         | 23.14-23.87   | 0.73      | 30                         | <0.2      | 122       | <5        |
| 23.87 - 24.31       | SILICIFIED ZONE<br>cream to lt gn colour BCA: 17°<br>Po stg's at 78°, 70° to CA.<br>calcite stringers ≤ 3mm.                                                     | 2387-24.31, str sil                                    | 23.87-24.31, Po ≤ 35% in<br>a band 1cm thick. Also diss<br>throughout zone ≤ 5%. Po in<br>≤ 2mm stg's ≤ 50%. | 15343         | 23.87-24.31   | 0.44      | 5                          | 0.2       | 759       | <5        |
| 24.31 - 25.49       | FELDSPAR PORPHYRY DIKE<br>Med gy to lt gn euhedral to sub-euhedral<br>fst. phenos ≤ 4mm. fsp = 25% of rock.<br>Upper ct at 53 to CA. lower ct at 56°<br>to CA.   |                                                        |                                                                                                              | 15344         | 24.31-25.49   | 1.18      | 10                         | <0.2      | 6         | <5        |
| 25.49 - 25.76       | SILTSTONE<br>lt gn sil alt BCA: 10° similar to zone<br>above Fsp dike.                                                                                           | 25.49-25.76, mod sil                                   | 25.49-25.76, Po ≤ 1%                                                                                         | 15345         | 25.49-25.76   | 0.27      | 5                          | <0.2      | 89        | 5         |

| From - To<br>meters | Lithology                                                                                                         | Alteration           | Mineralization/Sul-<br>phides/Structure/<br>Core Condition  | No.   | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|-------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------|-------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
| 25.76 - 30.27       | SILTSTONE<br>maroon colour w/ minor lt gn lenses.<br>Qz stg's >5mm thick at 56°, 54°<br>45°, 40° to CA.           | 25.76-30.27, mod sil | 25.76-30.27, Po in Qz stgs                                  | 15346 | 25.76-26.88             | 1.12      | 5                          | <0.2      | 97        | <5        |
|                     |                                                                                                                   |                      |                                                             | 15347 | 26.88-27.88             | 1.00      | 5                          | <0.2      | 130       | 5         |
|                     | 28.93-28.94 - Qz vein 1cm thick                                                                                   |                      | 28.93-28.94, Py < 10% in<br>Qz vein                         | 15348 | 28.93-29.03             | 0.10      | 5900/0.160                 | <0.2      | 658       | <5        |
|                     |                                                                                                                   |                      |                                                             | 1405  | 29.03-30.27             | 1.24      | 5                          | 0.2       | 164       | 10        |
| 30.27 - 30.50       | SILICEOUS ZONE                                                                                                    | 30.27-30.50, str sil | 30.77-30.50, Po < 2%<br>cp trace                            | 15349 | 30.27-30.50             | 0.23      | 50                         | <0.2      | 92        | 10        |
| 30.50 - 30.57       | QUARTZ VEIN<br>blue white Qz, 5% vugs < 2mm black<br>weathering of Py. Upper ct 59° to CA,<br>lower ct 57° to CA. |                      | 30.50-30.57, Py 20%                                         | 15350 | 30.50-30.76             | 0.26      | 3000/0.082                 | <0.2      | 200       | 120       |
| 30.57 - 34.69       | SILTSTONE<br>maroon w/ lt gn lenses BCA 11°, 24°,<br>5°, 7mm Qz stg 26° to CA, 15% Py.                            |                      |                                                             | 1401  | 30.76-31.55             | 0.79      | 5                          | 0.2       | 143       | 5         |
|                     |                                                                                                                   |                      |                                                             | 1406  | 31.55-33.83             | 2.28      | 5                          | 0.2       | 143       | <5        |
|                     |                                                                                                                   |                      |                                                             | 1402  | 33.83-34.03             | 0.20      | 5                          | 0.2       | 164       | <5        |
| 34.69 - 35.00       | QUARTZ STRINGER ZONE<br>Qz stg's < 1cm at 45°, 64°, 58°                                                           | 34.59-35.00, mod sil | 34.69 - 35.00, Py < 20%                                     | 1429  | 34.65-34.79             | 0.14      | 3800/0.10                  | 0.8       | 626       | 125       |
|                     |                                                                                                                   |                      |                                                             | 1403  | 34.50-35.00             | 0.5       | 940/0.022                  | 0.2       | 165       | 10        |
| 35.00 - 37.09       | SANDSTONE<br>v.f.g. lt gn. BCA 6°, 5°. Qz stg's<br>< 3mm at 73°, 60°, 38°                                         |                      | 35.00-37.09, Py < 5% in<br>stg's minor blebs of Po<br>< 1%. | 1404  | 35.00-37.09             | 2.09      | 5                          | 0.2       | 98        | 5         |



|                        |                   |                     |                           |                           |                           |
|------------------------|-------------------|---------------------|---------------------------|---------------------------|---------------------------|
| MPH CONSULTING LIMITED | Length (m): 78.33 | Grid : Mike         | Drilled : 12/14-16/86     | Objective: To test quartz | Hole No. M 86-3           |
| MIKE PROJECT           | Dip : -46°        | Latitude : 0 + 31S  | Contractor : Roger's      | vein in trench on S11A    | Hole Survey Type : Pajari |
| Project No. V222-III   | Azimuth : 308°    | Departure : 0 + 01W | Logged by : G. Roste      |                           | Depth Dip Azi             |
| INTERNATIONAL CHEROKEE | Core Size : BQ    | Collar elev.: ~780m | Date logged : 12/15-17/86 |                           | 78.33m -43° 304°          |
|                        | Casing: EW        | Remarks :           |                           |                           |                           |

| From - To<br>meters | Lithology                                                                                                                                                                                                                                                    | Alteration | Mineralization/Sul-<br>phides/Structure/<br>Core Condition | No.                                  | Sample<br>Interval<br>m                                       | Lgth<br>m                            | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm                       | Cu<br>ppm                   | As<br>ppm                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------|--------------------------------------|----------------------------|---------------------------------|-----------------------------|----------------------------|
| 0 - 3.35            | CASING                                                                                                                                                                                                                                                       |            | 3.35-5.20, 29% recovery                                    | 1410                                 | 3.35-5.20                                                     | 1.65                                 | 5                          | 0.2                             | 28                          | 10                         |
| 3.35 - 8.97         | SILTSTONE<br>Blk arg interbedded w/ gy siltstone bands<br>≤ 7mm thick. bd is bx'd and calcite<br>fills fractures. Minor Qz stg's ≤ 5mm<br>in size @ 35°, 90° to CA - good<br>calcite stg's but most too fractured to<br>measure. One is 25° to CA. BCA: 45°. |            | 3.35-8.97, Pb in Qz stg's<br>+ as ≤ 1mm blebs in<br>seds.  | 1411<br>1412<br>1413<br>1414<br>1415 | 5.20-6.35<br>6.35-6.55<br>6.55-7.26<br>7.26-7.70<br>7.70-8.97 | 1.15<br>0.20<br>0.71<br>0.44<br>1.27 | 5<br>5<br>5<br>5<br>5      | 0.2<br>0.2<br>0.2<br>0.2<br>0.2 | 54<br>76<br>66<br>107<br>90 | 10<br>10<br>10<br>10<br><5 |
| 8.97 - 10.29        | DIABASE<br>f.g. dk gn gm w/ 15% plag phenos ≤ 2 mm.<br>make up 5% of rock.                                                                                                                                                                                   |            | 8.97-10.29, Pb ≤ 1%<br>f. diss                             | 1416                                 | 8.97-10.29                                                    | 1.32                                 | 5                          | 0.2                             | 57                          | 5                          |
| 10.29 - 11.02       | SANDSTONE<br>Dk gn mg. w/ blk Arg. lenses ≤ 1cm thick<br>at 61°, 63° to CA. ≤ 2mm Calcite<br>stgs at 33°, 34° to CA.                                                                                                                                         |            |                                                            | 1417                                 | 10.29-11.02                                                   | 0.73                                 | 5                          | 0.2                             | 76                          | 5                          |
| 11.02 - 11.64       | SANDSTONE<br>Dk gn v.f.g. sdst ≤ 2mm Calcite stgs at<br>11°, 50°, 70°, lower ct at 60°                                                                                                                                                                       |            | 11.02-11.64, ≤ 1% Pb<br>f. diss                            | 1418                                 | 11.02-11.64                                                   | 0.62                                 | 5                          | 0.2                             | 62                          | 5                          |



| From - To<br>meters        | Lithology                                                                                                                                                                                                 | Alteration                                                | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                | Sample<br>No. | Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------|---------------|---------------|-----------|----------------------------|-----------|-----------|-----------|
| 11.02 - 11.64<br>(Cont'd.) | to CA. Upper ct at 58° to CA.                                                                                                                                                                             |                                                           |                                                                           |               |               |           |                            |           |           |           |
| 11.64 - 12.92              | SHEAR ZONE<br>lt gn and blk siltstone w/<br>stgs $\leq 0.5$ mm parallel to bd.<br>extensively sheared. BCA 50°, 57°                                                                                       | 11.64-12.92, mod chl <sup>c</sup>                         |                                                                           | 1419          | 11.64-12.92   | 1.28      | 5                          | 0.2       | 70        | 10        |
|                            |                                                                                                                                                                                                           |                                                           |                                                                           | 1428          | 12.92-13.31   | 0.39      | 5                          | 0.2       | 107       | 5         |
| 12.92 - 18.12              | SILTSTONE<br>Interbedded blk Arg. and lt gn siltstone<br>BCA: 50°, 51°, 38°, 51°. Calcite stgs in<br>random orientations. mod bxn of bd.                                                                  |                                                           | 12.92-18.12<br>sporadic Py/Po<br>$\leq 1\%$ diss and in<br>calcite stg's. | 1420          | 13.31-15.24   | 1.93      | 5                          | 0.2       | 109       | 10        |
|                            |                                                                                                                                                                                                           |                                                           |                                                                           | 1421          | 15.24-16.76   | 1.52      | 5                          | 0.2       | 101       | 10        |
|                            |                                                                                                                                                                                                           |                                                           |                                                                           | 1422          | 16.76-18.12   | 1.36      | 5                          | 0.2       | 108       | 10        |
| 18.12 - 19.79              | SANDSTONE<br>v.f.g. maroon sst w/ lenses of slightly<br>coarser lt gn. Sst BCA: 55°, 30°. Calcite in<br>bles $\leq 2$ mm = minor stg's.                                                                   | 18.12-19.79, wk sil in<br>lt gn zones and on<br>fractures | sil zones $\leq 2$ cm<br>w/ 10% Po.                                       | 1423          | 18.12-19.79   | 1.67      | 5                          | 0.2       | 131       | 15        |
| 19.79 - 21.77              | SANDSTONE<br>lt gn mg sdst w/ minor $\leq 3$ cm bands of<br>maroon mg sdst. BCA: 33°, 23°, Calcite<br>stgs $\leq 1$ cm at 31°, 33°, 59°, to CA. Qz<br>stgs $\leq 3$ mm at 54°, 34° to CA.<br>w/ minor Po. |                                                           | 19.79-21.77, Po $\leq 1\%$                                                | 1424          | 19.79-21.77   | 1.98      | 5                          | 0.2       | 35        | 10        |

| From - To<br>meters | Lithology                                                                                                           | Alteration                                     | Mineralization/Sul-<br>phides/Structure/<br>Core Condition      | Sample<br>No. | Interval<br>m              | Lgth<br>m    | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm  | Cu<br>ppm  | As<br>ppm |
|---------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|---------------|----------------------------|--------------|----------------------------|------------|------------|-----------|
| 21.77 - 22.81       | SILTSTONE<br>Maroon to blk mostly massive BCA: 22°.<br>≤ 1cm sil envelopes on fractures at<br>32°, 22°, 36° to CA.  | 21.77-22.81, mod sil<br>along fractures        | 21.77-22.81, sx ≤ 1%                                            |               |                            |              |                            |            |            |           |
| 22.81 - 23.89       | SANDSTONE<br>maroon grading to lt gn sdst BCA: 23°<br>Calcite stgs ≤ 5mm at 30°, 28°. One<br>Qz bleb 2.5 cm across. |                                                | 22.81-23.89, 2% diss Po<br>in narrow lense ≤ 10cm<br>at 23.61m. | 1425          | 22.81-23.89                | 1.08         | 5                          | 0.2        | 108        | 5         |
| 23.89 - 24.09       | SILICIFIED ZONE<br>lt gn to creamy wh. BCA 28°.                                                                     |                                                | 23.89-24.09, Po ≤ 1%                                            | 1426          | 23.89-24.09                | 0.20         | 5                          | 0.2        | 84         | 15        |
| 24.09 - 24.48       | SANDSTONE<br>cg maroon sdst. CA: 22°, 26° angular<br>frags ≤ 5mm.                                                   |                                                |                                                                 |               |                            |              |                            |            |            |           |
| 24.48 - 26.42       | SILTSTONE<br>maroon to blk siltstone BCA: 25°, 24°<br>one Calcite vein at 26.32, 5mm thick<br>at 38° to CA.         | 24.48-26.42, sil on<br>fractures at 48° to CA. | 24.69-25.45, 73% recovery<br>extensively broken.                | 1427<br>1430  | 24.69-25.45<br>25.45-26.42 | 0.76<br>0.97 | 5<br>5                     | 0.2<br>0.2 | 133<br>138 | 5<br>5    |
| 26.42 - 27.36       | SANDSTONE<br>lt gn mg. sdst which coarsens down hole.<br>one ≤ 1cm calcite stg w/ 10% Po.                           | 26.42-27.36, wk sil on<br>fracture planes      | @ 26.57, calcite stg ≤ 1cm<br>w/ 10% Po                         | 1431<br>1432  | 26.42-26.64<br>26.64-27.36 | 0.22<br>0.72 | 5<br>5                     | 0.2<br>0.2 | 96<br>97   | 10<br>10  |



| From - To<br>meters | Lithology                                                                                                                          | Alteration                                        | Mineralization/Sul-<br>phides/Structure/<br>Core Condition | No.                  | Sample<br>Interval<br>m                   | Lgth<br>m            | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm         | Cu<br>ppm       | As<br>ppm      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------|----------------------|-------------------------------------------|----------------------|----------------------------|-------------------|-----------------|----------------|
| 31.56 - 32.76       | SANDSTONE<br>maroon mg cg sil zones $\leq$ 2cm thick<br>at 25°, 45° to CA.                                                         | 31.56-32.76, str sil +<br>wk calcite flooding     | 31.56-32.41, diss Po<br>$\leq$ 5% in sil zones.            | 1440                 | 31.56-32.76                               | 1.20                 | 5                          | 0.2               | 114             | 10             |
| 32.76 - 34.74       | ARGILLITE<br>blk mostly massive. BCA 12° - one<br>Qz bleb ~1cm w/ Po.                                                              |                                                   |                                                            | 1441                 | 34.14-34.74                               | 0.60                 | 5                          | 0.2               | 99              | 15             |
| 34.74 - 36.29       | SANDSTONE<br>maroon to dk gy v.f.g. - mg. BCA 16°                                                                                  | 35.42-35.68, wk qz +<br>calcite blebs $\leq$ 2cm. | 35.42-35.68, Po $\leq$ 20%<br>in blebs                     | 1442<br>1443<br>1444 | 34.74-35.42<br>35.42-35.68<br>35.68-36.29 | 0.68<br>0.26<br>0.61 | 5<br>5<br>5                | 0.2<br>0.2<br>0.2 | 64<br>123<br>62 | <5<br>10<br>10 |
| 36.29 - 37.21       | ARGILLITE<br>blk massive. Thin ( $\leq$ 3mm) calcite stgs<br>at 45°, 40° to CA. Qz stg at 12° to<br>CA. $\leq$ 7mm thick.          |                                                   | Qz stg w/ 35% Po                                           | 1445                 | 36.29-37.21                               | 0.92                 | 5                          | 0.2               | 84              | 5              |
| 37.21 - 37.37       | BRECCIA ZONE (ARG)<br>dk. gy-blk angular frags w/ calcite<br>cement (crackle breccia). Zone is<br>@ 66° to CA. (rock is Argillite) |                                                   |                                                            | 1446                 | 37.21-37.37                               | 0.16                 | 5                          | 0.2               | 76              | 10             |
| 37.37 - 37.60       | SANDSTONE<br>v.f.g. dk gy no visible bdg.                                                                                          |                                                   |                                                            | 1447                 | 37.37-37.60                               | 0.23                 | 5                          | 0.2               | 117             | 15             |

| From - To<br>meters | Lithology                                                                                                                                                                                                                                                | Alteration            | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                                                       | Sample<br>No. | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------|---------------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
| 37.60 - 38.10       | ARGILLITE<br>blk no visible bd. highly fractured w/<br>calcite. Silicified on planes $\leq$ 1cm<br>thick at 24° to CA. ~3 lenses but bd<br>is fractured original orientation is<br>destroyed calcite "crackle bxm" appears<br>to be post silicification. | 37.60-38.10, mod sil  | 37.60-38.10, Po $\leq$ 10%<br>in silicified areas.                                                               | 1448          | 37.60-38.10             | 0.50      | 5                          | 0.4       | 253       | 15        |
| 38.10 - 39.69       | ARGILLITE<br>blk to dk gy Arg./silt. Minor v.f.g. sst<br>lenses. BCA: 20°, Qz + Calcite in<br>a $\leq$ 3mm wide fracture which runs for<br>0.9m parallel to core axis. One bleb of<br>Qz w/ Po 1cm x 2cm.                                                | 38.10-39.69, wk sil   | @ 39.21m - / $\leq$ 3% in<br>in Qz bleb; Po < 1%<br>+ diss in sample.<br>Po < 1% in calcite fracture<br>filling. | 1449          | 38.10-39.69             | 1.59      | 5                          | 0.4       | 104       | 5         |
| 39.69 - 39.79       | SILICIFIED ZONE<br>2cm wide creamy wh silicified zone w/<br>calcite + Po. at 51° to CA.                                                                                                                                                                  | 39.69-39.79, str sil. | 39.69-39.79, Po $\leq$ 10%.                                                                                      | 1450          | 39.69-39.79             | 0.10      | 5                          | 0.6       | 238       | 10        |
| 39.79 - 42.91       | ARGILLITE<br>blk - dk gy. BCA: 12°, 13°                                                                                                                                                                                                                  | 39.79-42.91, wk sil   |                                                                                                                  | 1451          | 39.79-42.40             | 2.61      | 5                          | 0.4       | 95        | 15        |
|                     |                                                                                                                                                                                                                                                          |                       |                                                                                                                  | 1452          | 42.40-42.91             | 0.51      | 5                          | 0.2       | 95        | 10        |
| 42.91 - 42.96       | SILICIFIED ZONE<br>1cm thick creamy wh. sil zone at<br>38° to CA.                                                                                                                                                                                        | 42.91-42.96 str sil   | 42.91-42.96 Po $\leq$ 30% in<br>sil zone.                                                                        | 1453          | 42.91-42.96             | 0.05      | 5                          | 0.4       | 361       | 10        |

| From - To<br>meters | Lithology                                                                                                                                                                                                                           | Alteration                            | Mineralization/Sul-<br>phides/Structure/<br>Core Condition | Sample<br>No.                        | Sample<br>Interval<br>m                                                 | Lgth<br>m                            | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm                       | Cu<br>ppm                     | As<br>ppm                |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------|--------------------------------------|----------------------------|---------------------------------|-------------------------------|--------------------------|
| 42.96 - 43.37       | ARGILLITE<br>Blk - Dk gy. Qz stg ~ parallel to<br>CA w/ 5% Po. Also 2mm Qz str at<br>45° to CA.                                                                                                                                     | 42.96-43.37 mod sil                   |                                                            | 1454                                 | 42.96-43.37                                                             | 0.41                                 | 5                          | 0.2                             | 103                           | 10                       |
| 43.37 - 43.47       | SILICIFIED ZONE<br>Creamy wh, 53° to CA, 3cm thick.                                                                                                                                                                                 | 43.37-43.47 str sil                   | 43.37-43.47 Po < 5%                                        | 1455                                 | 43.37-43.59                                                             | 0.22                                 | 5                          | 0.2                             | 89                            | 15                       |
| 43.47 - 45.43       | ARGILLITE<br>Blk. BCA 14°                                                                                                                                                                                                           | 42.96-43.37 mod sil                   |                                                            | 1456                                 | 43.59-45.43                                                             | 1.84                                 | 5                          | 0.2                             | 90                            | 10                       |
| 45.43 - 46.29       | DIABASE<br>Lt. gn fg gm w/ 10% < 1mm<br>enh, Flag pheros. Upper ct bnd<br>but lower ct at 55° to CA.                                                                                                                                |                                       |                                                            | 1457                                 | 45.43-46.29                                                             | 0.86                                 | 5                          | 0.2                             | 36                            | 5                        |
| 46.29 - 52.76       | ARGILLITE (SILTSTONE)<br>blk w/ minor fg. sdst lenses. BCA: 23°<br>@ 46.69m 1cm Qz stg w/ 10% Po selvege<br>@ 60° to CA.<br><br>@ 48.47-49.12: 3 silicified lenses <<br>5cm @ 52°, 42°, 40° to CA. Thin layers<br>< 5mm of calcite. | 46.29-52.76, str sil in<br>in lenses. | @ 46.69, Po < 10% in<br>Qz stg.                            | 1458<br>1459<br>1460<br>1461<br>1462 | 46.29-46.59<br>46.59-46.79<br>47.69-48.47<br>48.47-48.92<br>48.92-49.12 | 0.30<br>0.20<br>0.78<br>0.45<br>0.20 | 5<br>5<br>5<br>5<br>5      | 0.2<br>0.2<br>0.2<br>0.2<br>0.4 | 94<br>114<br>104<br>82<br>129 | 5<br>5<br>10<br>10<br>10 |

| From - To<br>meters        | Lithology                                                                         | Alteration                     | Mineralization/Sul-<br>phides/Structure/<br>Core Condition | Sample<br>No. | Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|----------------------------|-----------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------|---------------|---------------|-----------|----------------------------|-----------|-----------|-----------|
| 46.29 - 52.76<br>(Cont'd.) | @ 49.12-49.73, bxd and broken core sil zone 3cm thick at 25° to CA.               |                                |                                                            | 1463          | 49.12-49.58   | 0.46      | 5                          | 0.2       | 81        | 5         |
|                            | @ 49.73-50.26, 3 calcite stringers 5mm thick @ 45°, 57° to CA.                    |                                | 49.73-50.26, Po < 10% in calcite stg's.                    | 1464          | 49.58-49.73   | 0.15      | 5                          | 0.4       | 94        | 10        |
|                            | 50.26-52.02, ~5 thin sil zones < 1cm @ 59°, 24°, 45° to CA                        |                                | 50.26-52.02, Po < 10% in sil str                           | 1465          | 49.73-50.26   | 0.53      | 5                          | 0.2       | 126       | 10        |
|                            |                                                                                   |                                |                                                            | 1466          | 50.26-52.02   | 1.76      | 40                         | 0.4       | 131       | 5         |
| 52.76 - 55.07              | SANDSTONE                                                                         |                                |                                                            |               |               |           |                            |           |           |           |
|                            | dk gy v.f.g. w/ minor silt lenses<br>BCA: 21°, 24°.                               |                                |                                                            | 1467          | 54.05-54.55   | 0.50      | 5                          | 0.4       | 140       | 10        |
|                            | @ 54.70, creamy wh sil zone w/ calcite at 30° to CA. < 2cm thick.                 | 54.70, str sil + carb flooding | 57.40, Po < 5%                                             | 1468          | 54.55-54.85   | 0.30      | 5                          | 0.4       | 133       | 10        |
|                            |                                                                                   |                                | 1469                                                       | 54.85-55.07   | 0.22          | 5         | 0.4                        | 119       | 5         |           |
| 55.07 - 57.05              | SILTSTONE                                                                         |                                |                                                            |               |               |           |                            |           |           |           |
|                            | lt gn - maroon - blk bxd bd. w/ calcite fracture filling between 55.90 and 56.53. |                                |                                                            | 1470          | 55.07-55.90   | 0.83      | 5                          | 0.2       | 112       | 10        |
|                            |                                                                                   |                                |                                                            | 1471          | 55.90-56.50   | 0.60      | 5                          | 0.4       | 135       | 10        |
|                            |                                                                                   |                                | 1472                                                       | 56.53-57.05   | 0.52          | 5         | 0.4                        | 137       | 5         |           |
| 57.05 - 66.60              | SANDSTONE                                                                         |                                |                                                            |               |               |           |                            |           |           |           |
|                            | maroon - lt gn v.f.g. - mg w/ minor silty lenses. BCA: 29°, 19°, 24°.             |                                | 58.22-58.56, broken core                                   | 1473          | 57.05-58.22   | 1.17      | 5                          | 0.4       | 108       | 15        |
|                            | 58.56-59.24, lt gn w/ thin < 5mm sil zone at 74°, 42°.                            | 58.56-59.24, wk sil on plane   | 58.56-59.24, thin sil stg w/ < 1% sx                       | 1474          | 58.22-58.56   | 0.34      | 5                          | 0.2       | 84        |           |
|                            |                                                                                   |                                |                                                            | 1475          | 58.56-59.24   | 0.68      | 5                          | 0.2       | 20        | 10        |
|                            | 59.24-60.08, lt gn w/ str sil on planes at 18°, 38°, 17° to CA.                   | 59.24-60.08, str sil + carb.   | 59.24-60.08, Po < 5%                                       | 1476          | 59.24-60.08   | 0.84      | 5                          | 0.4       | 45        | 10        |

| From - To<br>meters | Lithology                                                                                                                                                                            | Alteration      | Mineralization/Sul-<br>phides/Structure/<br>Core Condition | No.  | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------|------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
| 57.05 - 66.60       |                                                                                                                                                                                      |                 |                                                            | 1477 | 60.08-61.26             | 1.18      | 5                          | 0.4       | 134       | 20        |
| (Cont'd.)           |                                                                                                                                                                                      |                 |                                                            | 1478 | 61.26-61.81             | 0.55      | 5                          | 0.2       | 82        | 10        |
|                     | @ 61.89: 1cm thick Qt + calcite stg                                                                                                                                                  |                 | A 61.89, $\leq$ 2.5% Po                                    | 1479 | 61.81-61.98             | 0.17      | 5                          | 0.4       | 109       | 5         |
|                     | @ 64.17-64.63m, creamy wh sil zone.<br>~4cm thick at 17° to CA.                                                                                                                      | str sil + carb. | 54.17-64.63, Po $\leq$ 5%                                  | 1480 | 63.81-64.17             | 0.36      | 5                          | 0.4       | 162       | 10        |
|                     | @ 65.19, creamy wh sil zone at 27° to CA.                                                                                                                                            | str sil + carb  | Po $\leq$ 5%                                               | 1482 | 64.63-65.20             | 0.57      | 5                          | <0.2      | 114       | 5         |
| 66.60 - 66.96       | ARGILLITE<br>blk to dk gy. BCA 20°. Qz stg<br>parallel to hdg.                                                                                                                       |                 | $\leq$ 5mm Qt stg w/ 40%                                   | 1483 | 65.20-65.84             | 0.64      | 5                          | <0.2      | 111       | <5        |
|                     |                                                                                                                                                                                      |                 |                                                            | 1484 | 66.60-66.96             | 0.36      | 5                          | <0.2      | 112       | 15        |
| 66.96 - 67.84       | SANDSTONE<br>lt gn mg.-fg. $\leq$ 8mm Qz stg runs parallel<br>to CA for most of this section.                                                                                        |                 | Po in Qz stg $\leq$ 2%                                     | 1485 | 66.96-67.84             | 0.88      | 5                          | <0.2      | 118       | 10        |
| 67.84 - 70.32       | ARGILLITE AND SANDSTONE<br>blk to dk gy arg w/ sdst lenses $\leq$ 10 cm<br>thick. BCA 32°, 23°, 19°.<br>Two sil zones $\leq$ 2cm at 68.64m and 69.60m<br>@ 41° and 37° respectively. | str sil + carb  | Po $\leq$ 3%                                               | 1486 | 67.84-68.58             | 0.74      | 5                          | <0.2      | 105       | 5         |
|                     |                                                                                                                                                                                      |                 |                                                            | 1487 | 68.58-68.68             | 0.10      | 5                          | <0.2      | 124       | 5         |
|                     |                                                                                                                                                                                      |                 |                                                            | 1488 | 68.68-69.52             | 0.84      | 5                          | <0.2      | 93        | <5        |
|                     |                                                                                                                                                                                      |                 |                                                            | 1489 | 69.52-69.62             | 0.10      | 10                         | <0.2      | 119       | <5        |
|                     |                                                                                                                                                                                      |                 |                                                            | 1490 | 69.62-70.08             | 0.46      | 5                          | <0.2      | 70        | 10        |
| 70.32 - 72.24       | ARGILLITE<br>blk dk gy massive. Calcite in $\leq$ 1mm<br>random fractures. Also calcite in three<br>$\leq$ 1cm stg at 64°, 53°, 55° to CA                                            |                 | Po $\leq$ 5% in stgs                                       | 1491 | 70.08-70.38             | 0.30      | 5                          | <0.2      | 96        | 10        |
|                     |                                                                                                                                                                                      |                 |                                                            | 1492 | 70.38-71.58             | 1.20      | 20                         | <0.2      | 76        | 15        |
|                     |                                                                                                                                                                                      |                 |                                                            | 1493 | 71.58-71.72             | 0.14      | 5                          | <0.2      | 66        | 15        |
|                     |                                                                                                                                                                                      |                 |                                                            | 1494 | 71.72-71.99             | 0.27      | 5                          | <0.2      | 99        | 10        |



| From - To<br>meters        | Lithology                                                                                                              | Alteration     | Mineralization/Sul-<br>phides/Structure/<br>Core Condition | Sample<br>No. | Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|----------------------------|------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------|---------------|---------------|-----------|----------------------------|-----------|-----------|-----------|
| 70.32 - 72.24<br>(Cont'd.) | @ 71.99-72.24, sil + carb zone 6cm<br>thick at 40° to CA.                                                              | str sil + carb | Po + Cp < 1%                                               | 1495          | 71.99-72.24   | 0.25      | 5                          | <0.2      | 81        | 20        |
|                            |                                                                                                                        |                |                                                            | 1496          | 72.24-72.86   | 0.62      | 80                         | <0.2      | 100       | 15        |
| 72.24 - 74.32              | SILTSTONE (ARG ?) + SANDSTONE<br>Interbedded blk silt w/ mg-cg dk gy<br>sst. BCA: 38°, 32°.                            |                |                                                            | 1497          | 72.86-73.14   | 0.28      | 20                         | <0.2      | 78        | 15        |
|                            | 73.14-73.34m, sil zone 6cm thick<br>at 53° to CA.                                                                      | str sil + carb | Po < 10%                                                   | 1498          | 73.14-73.34   | 0.20      | 20                         | 0.2       | 239       | 5         |
|                            |                                                                                                                        |                |                                                            | 1499          | 73.34-73.59   | 0.25      | 5                          | <0.2      | 75        | 15        |
| 74.32 - 74.97              | ARGILLITE<br>blk to dk gy. BCA: 39°, 45°                                                                               |                |                                                            | 1500          | 74.47-74.77   | 0.30      | 5                          | <0.2      | 105       | 15        |
|                            | 74.77-74.97, 8cm wide sil zone at<br>at 52° to CA.                                                                     | str sil + carb | Po < 5%                                                    | 4201          | 74.77-74.97   | 0.20      | 5                          | 0.4       | 145       | 5         |
| 74.97 - 75.29              | SANDSTONE<br>dk gy fg-mg. BCA: 59°. Minor silty lam.                                                                   |                |                                                            | 4202          | 74.97-75.29   | 0.32      | 5                          | <0.2      | 93        | 5         |
| 75.29 - 76.49              | ARGILLITE<br>blk - dk gy. BCA: 37° but mostly massive<br>so bd hard to see, several calcite stgs<br>< 2mm at 36°, 29°. |                |                                                            | 4203          | 76.03-76.29   | 0.26      | 5                          | <0.2      | 100       | 5         |
|                            | 76.29-76.49, sil zone at 40° to CA<br>7cm thick.                                                                       | str sil + carb | Po < 5%                                                    | 4204          | 76.29-76.49   | 0.20      | 5                          | <0.2      | 274       | 5         |



|                        |                    |                     |                           |                              |                                                            |
|------------------------|--------------------|---------------------|---------------------------|------------------------------|------------------------------------------------------------|
| MPH CONSULTING LIMITED | Length (m): 181.35 | Grid : Mike         | Drilled : 01/08-12/87     | Objective: To test zone with | Hole No. M 87-1                                            |
| MIKE PROJECT           | Dip : -46 1/2°     | Latitude : 2 + 36N  | Contractor : Roger's      | 4 Au bearing quartz veins    | Hole Survey Type : Pajari                                  |
| Project No. V222-III   | Azimuth : 200°     | Departure : 1 + 11E | Logged by : G. Allen      |                              | Depth Dip Azi                                              |
| INTERNATIONAL CHEROKEE | Core Size : BQ     | Collar elev.: ~655m | Date logged : 01/09-13/87 |                              | No Test - Hole making water<br>and couldn't get tool down. |
|                        | Casing: 0.6m       | Remarks :           |                           |                              |                                                            |

| From - To<br>meters | Lithology                                                                                                                                                                                                                                                                                                                                                      | Alteration | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                     | Sample<br>No.        | Interval<br>m                       | Lgth<br>m            | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm            | Cu<br>ppm       | As<br>ppm      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------|----------------------|-------------------------------------|----------------------|----------------------------|----------------------|-----------------|----------------|
| 0 - 1.11            | Ground Core? Collared on bedrock and reported to have cored from start, so there may be a 1m error in all depths.                                                                                                                                                                                                                                              |            |                                                                                |                      |                                     |                      |                            |                      |                 |                |
| 1.1 - 4.18          | SANDSTONE<br>1.1-1.34 - Broken, weathered core. M - dk gy, f.-m.g. siliceous (silicified?) SDST to STST. Cherty. Thinly laminated. Bedding at ~45° to CA.<br>1.62-3.53 - M-c.g., lt gy to dk gy-bn sil. SDST grains to 1mm appear to be predom Qz and fsp.<br>3.53-4.18 - f. to v.f.g., sil, dk gy to dk gy-bn SDST. Massive to thinly laminated at 20° to CA. |            | 3.53-4.18 - B.C.<br>Tr Py in hairline frcrs..                                  | 4207                 | 3.53-4.18                           | 0.65                 | 420/0.025                  | <0.2                 | 84              | <5             |
| 4.18 - 4.39         | QUARTZ VEIN<br>L gy to m blu-gy, wkly vuggy, colloidal quartz vein. Appears to be ~18cm true width. Central core of ~ 5cm mineralized                                                                                                                                                                                                                          |            | 3.23-3.30 - f.g. Cp, Py, As,<br>PO + f.g., soft, earthy,<br>gray mineral (~5%) | 4208<br>4209<br>4210 | 4.18-4.39<br>4.39-5.18<br>5.18-5.48 | 0.21<br>0.79<br>0.30 | 1200/0.035<br>10<br>5      | <0.2<br><0.2<br><0.2 | 227<br>40<br>44 | 190<br>5<br><5 |

| From - To<br>meters | Lithology                                                                                                                                                                                         | Alteration | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                                                                                                                             | No.                  | Sample<br>Interval<br>m                  | Lgth<br>m            | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm            | Cu<br>ppm      | As<br>ppm     |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------|----------------------|----------------------------|----------------------|----------------|---------------|
|                     | with:<br>~2% f.g. Cp<br>~1-2% f.g. Py<br>~Tr f.g. As<br>~<1% f.g. Po<br>Vein selvages at ~60° to CA. Contacts<br>are sharp and tight. No obvious alteration<br>around vein.                       |            | 5.18-5.48 - B.C.<br>5.48-6.55 - Few hairline<br>frcrs at 20° to 40° CA<br>with associated pale blue-gy<br>alt <1% PO in blebs to 3mm<br>assoc. with frcrs.                             | 4211                 | 5.48-6.55                                | 1.07                 | 30                         | <0.2                 | 69             | <5            |
| 4.39 - 76.83        | M - dk blu-gy to dk ruddy bn, vfg to mg<br>(average f.g.), sil, massive to thinly<br>laminated SDST. Few layers to a few cm<br>thick of vfg, sil pale gn-gy, cherty<br>siltstone                  |            | 6.55-6.88 - Zone of 3 Qz<br>stringers to 1 cm with:<br>5% PO, 1-2% Py, Tr Cp<br>Veins at 20° CA.<br>7.62 - Bedding 20° CA.<br>10.1-10.36 - B.C. Limonitic<br>gougy sub-parallel to CA. | 4212<br>4213         | 6.55-6.88<br>6.88-7.62                   | 0.33<br>0.74         | 5<br>5                     | <0.2<br><0.2         | 77<br>83       | 10<br><5      |
|                     | 16.35-16.6 - Thinly laminated STST to f.g.<br>SDST, with soft sediment deformation.<br>(Load casts suggest tops down hole)                                                                        |            | 10.92-11.05 - B.C. 1-2mm Qz<br>carb stringers at 60° CA<br>Barren                                                                                                                      | 4214<br>4215<br>4216 | 10.1-10.36<br>10.36-19.92<br>10.92-11.05 | 0.26<br>0.56<br>0.12 | 5<br>5<br>5                | <0.2<br><0.2<br><0.2 | 67<br>74<br>48 | 5<br><5<br><5 |
|                     | 28.2-30.22 - M-C grained SDST. Dk gn-gy<br>sil, chloritic gm with vague, irregular<br>gy grains to 0.5mm. (FSP? Q?). Massive<br>Cut by abdt hairline stringers, 30° to<br>90° to CA. <1% diss PO. |            | 11.9 - limonitic frcr<br>60° CA.<br>16.0 - Bedding 20° CA.<br>18.9-19.2 - 2, 3-5mm carb<br>stringers at 60° CA. Tr Py                                                                  | 4217<br>4218         | 11.05-11.68<br>18.9-19.2                 | 0.63<br>0.3          | 370/0.001<br>5             | <0.2<br><0.2         | 67<br>67       | <5<br><5      |

| From - To<br>meters | Lithology                                                                                                        | Alteration                         | Mineralization/Sul-<br>phides/Structure/<br>Core Condition   | No.  | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------|------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
|                     | 27.76-28.2 - Zone of fracturing 40° to 60° CA. F.G. sdst alt to a light gy adjacent frcrs. Core of frcrs contain |                                    | 20.03-20.23 - Qz stringers to 2mm 40°-70° CA. Tr Py          | 4219 | 20.03-20.23             | 0.2       | 5                          | <0.2      | 15        | <5        |
|                     | m.g. crystalline dk gn mineral (chlorite?), ~2-3% PO. Everything silicified. Bdd ~40° CA.                        |                                    |                                                              | 4220 | 26.46-27.0              | 0.54      | 20                         | 0.2       | 231       | 5         |
|                     |                                                                                                                  |                                    | 27.0-27.34 - Zone of several Qz flooded frcrs 2mm - 2cm      | 4221 | 27.0-27.34              | 0.34      | 170                        | 0.2       | 148       | 5         |
|                     |                                                                                                                  |                                    | ~2% Py in veins. <1% over all, 45°-60° CA.                   | 4222 | 27.34-27.76             | 0.42      | 20                         | <0.2      | 18        | <5        |
|                     |                                                                                                                  |                                    | 27.76-28.2 - Zone of alt around frcrs. F.G. sdst alt         | 4223 | 27.76-28.2              | 0.44      | 10                         | 0.2       | 66        | 5         |
|                     |                                                                                                                  |                                    | to lt gy color.                                              | 4224 | 28.2-29.63              | 1.43      | 30                         | <0.2      | 53        | <5        |
|                     | 30.22-31.72 - Dk gy-bn to blu-gy, sil, vfg sdst to stst. Bdd 25°-30° CA. <1% Py (diss)                           |                                    | 29.68-29.76 - 1cm Qz str                                     | 4225 | 29.63-29.81             | 0.18      | 50                         | 0.2       | 478       | <5        |
|                     |                                                                                                                  |                                    | 30° CA. Assoc gn alt 1-2mm. 5% PO in veins. Tr CP            | 4226 | 29.81-30.36             | 0.55      | 210/0.008                  | <0.2      | 127       | <5        |
|                     |                                                                                                                  |                                    |                                                              | 4227 | 30.36-30.52             | 0.16      | 50                         | 0.2       | 173       | <5        |
|                     | 31.72-32.67 - Dk gn-gy to lt gn-gy mg sil sdst. Lt gn-gy patches probably an alteration feature.                 |                                    | 29.81-30.36 - few hairline frcrs at 70° CA with PO and tr CP |      |                         |           |                            |           |           |           |
|                     |                                                                                                                  |                                    | 30.44 - 0.5cm str of Qz with 10% PO. 70° CA.                 |      |                         |           |                            |           |           |           |
|                     | 32.67-33.26 - Dk gn-gy f.g. sdst to stst. Bdd sub-parallel to CA                                                 |                                    |                                                              |      |                         |           |                            |           |           |           |
|                     |                                                                                                                  | 34.24-34.5 - altered to a lt gn-gy | 34.24-34.50 - 1cm Qz str. 30° CA. Tr Cp, Py                  | 4228 | 34.24-34.50             | 0.26      | 5                          | 0.2       | 175       | 5         |
|                     | 33.26-37.19 - M - C.G. dk gn-gy sil sdst.                                                                        |                                    |                                                              | 4229 | 34.50-35.14             | 0.64      | 5                          | <0.2      | 51        | <5        |

| From - To<br>meters                                                                                           | Lithology | Alteration                                      | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                        | No.  | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------|-----------------------------------------------------------------------------------|------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
| 37.19-40.39 - M to dk gn-gy, sil, mg<br>sdst to stst. Bdd ~15° CA.                                            |           | 35.14-35.33 - L gn-gy<br>alt zone.              | 35.25 - 0.5cm Qz flooded                                                          | 4230 | 35.14-35.33             | 0.19      | 5                          | <0.2      | 27        | 5         |
|                                                                                                               |           |                                                 | frcr 1-2% PO.                                                                     | 4231 | 35.33-35.80             | 0.47      | 5                          | <0.2      | 126       | <5        |
|                                                                                                               |           |                                                 |                                                                                   | 4232 | 35.80-35.97             | 0.17      | 5                          | <0.2      | 179       | 5         |
|                                                                                                               |           |                                                 | 35.80-35.97 - Zone of Qz<br>strs to lcm. 45° CA. Py to<br>10% in stringers. Tr Cp | 4233 | 35.97-36.4              | 0.67      | 5                          | <0.2      | 61        | 5         |
| 40.39-52.63 - M-cg, sil, dk gn-gy sdst.<br>Sub-ang to rdd lt gn-gy to black lithic<br>clast to 4mm. Av ≤ 1mm. |           | 39.01-39.24 - L gn-gy<br>alt around 1 cm Qz str | 39.01-39.24 - lcm Qz str                                                          | 4234 | 38.36-39.01             | 0.65      | 5                          | 0.2       | 107       | <5        |
|                                                                                                               |           |                                                 | 25° CA. 2-3% PO                                                                   | 4235 | 39.01-39.24             | 0.23      | 5                          | 0.2       | 432       | 20        |
|                                                                                                               |           |                                                 |                                                                                   | 4236 | 39.24-40.27             | 1.03      | 5                          | 0.2       | 81        | <5        |
| 44.0-45.52 - Banded (bdd?) 45° CA.                                                                            |           |                                                 | 40.27-40.52 - Zone with 2 Qz<br>carb stgs to lcm, 45° CA.                         | 4237 | 40.27-40.52             | 0.25      | 5                          | <0.2      | 50        | <5        |
|                                                                                                               |           |                                                 | Tr Po.                                                                            | 4238 | 40.52-41.45             | 0.93      | 5                          | <0.2      | 17        | <5        |
|                                                                                                               |           |                                                 | 41.45-41.70 - Several 2-3mm<br>Qz stgs 30° to CA. 1-2% Po                         | 4239 | 41.45-41.70             | 0.25      | 5                          | 0.4       | 248       | 5         |
|                                                                                                               |           |                                                 | + Cp in stgs. <1% @ overall                                                       | 4240 | 41.70-43.02             | 1.32      | 5                          | <0.2      | 21        | 5         |
|                                                                                                               |           |                                                 | 43.07 - lcm Qz stg, 70° CA.                                                       | 4241 | 43.02-43.14             | 0.12      | 5                          | 0.2       | 92        | 5         |
|                                                                                                               |           |                                                 | 1% Po along up hole selvage.                                                      | 4242 | 43.14-44.0              | 0.86      | 5                          | 0.2       | 100       | 5         |
|                                                                                                               |           |                                                 |                                                                                   | 4243 | 44.0-45.42              | 1.42      | 5                          | <0.2      | 3         | <5        |
|                                                                                                               |           |                                                 | 44.0-45.42 - Sil, carb<br>alt. Weakly calc.<br>Bleached to lt blu-gy              | 4244 | 45.42-46.48             | 0.06      | 5                          | 0.2       | 64        | <5        |
|                                                                                                               |           |                                                 |                                                                                   | 4245 | 48.02-49.34             | 1.32      | 5                          | 0.2       | 65        | <5        |
|                                                                                                               |           |                                                 | 45.05-45.42 - B.C.                                                                | 4246 | 49.34-49.50             | 0.16      | 1560/0.083                 | 0.4       | 14        | <5        |
|                                                                                                               |           |                                                 | 49.34-49.50 - 1-2cm white<br>calcite vein 30° CA. Tr Py                           | 4247 | 49.50-50.50             | 1.00      | 5                          | <0.2      | 41        | 5         |

| From - To<br>meters                                                                                                | Lithology | Alteration | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                                             | No.  | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|--------------------------------------------------------------------------------------------------------------------|-----------|------------|--------------------------------------------------------------------------------------------------------|------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
| 52.63-56.25 - Dk bn-gy, sil vfg sdst<br>to stst.                                                                   |           |            | 52.63-53.38 - B.C.                                                                                     | 4248 | 52.63-53.38             | 0.75      | 5                          | 0.2       | 164       | <5        |
|                                                                                                                    |           |            | 53.38-53.72 - Zone of 2 Qz<br>veins to 2 cm 30° CA. 5% Po,                                             | 4249 | 53.38-53.72             | 0.34      | 210/0.009                  | <0.2      | 130       | <5        |
| 56.25-56.98 - Dk blu-gy to bn-gy coarse<br>grained sil sdst.                                                       |           |            | Tr Cp in veins                                                                                         | 4250 | 53.72-55.16             | 1.44      | 5                          | 0.2       | 107       | <5        |
|                                                                                                                    |           |            | 54.8 - 1cm Qz stg 45° CA<br>5% Po                                                                      | 4101 | 55.16-55.39             | 0.23      | 60                         | <0.2      | 4         | <5        |
| 56.98-69.10 - Dk blu-gy to dk bn-gy sil<br>f.g. sdst to stst. Out by abdt hairline<br>Qz and carb stgs 30°-70° CA. |           |            | 54.8 - 1cm Qz stg 45° CA<br>5% Po                                                                      | 4102 | 55.39-55.61             | 0.22      | 5                          | <0.2      | 54        | <5        |
|                                                                                                                    |           |            | 55.16-55.39 - Qz stg bx zone<br>30° CA. Barren                                                         | 4103 | 55.61-55.80             | 0.19      | 230/0.012                  | <0.2      | 78        | <5        |
| 61.07 - Bdd 25°-30° CA.                                                                                            |           |            | 30° CA. Barren                                                                                         | 4104 | 55.80-56.52             | 0.72      | 10                         | 0.2       | 118       | <5        |
|                                                                                                                    |           |            | 55.61-55.80 - 2cm blu-gy Qz<br>vein 30° CA. 5% Py.                                                     | 4105 | 56.52-56.61             | 0.09      | 100                        | 0.4       | 253       | <5        |
| 59.25-60.30 - Mottled<br>light to dk gy around<br>frers at 30° CA.                                                 |           |            | 56.61-58.12                                                                                            | 4106 | 56.61-58.12             | 1.51      | 5                          | 0.2       | 94        | <5        |
|                                                                                                                    |           |            | 56.52 - 1cm Qz stg 70° CA.<br>25% Py, Tr Cp                                                            | 4107 | 59.25-60.30             | 1.05      | 5                          | <0.2      | 61        | <5        |
| 60.72-61.06 - Pale cream<br>colored zone of sil rich<br>material (vein?) 45° CA,<br>x-cutting bedding.             |           |            | 59.25-60.30 - 1% Py + Po                                                                               | 4108 | 60.72-61.06             | 0.34      | 5                          | 0.2       | 73        | <5        |
|                                                                                                                    |           |            | 60.72-61.06 - Pale cream<br>colored zone of sil rich<br>material (vein?) 45° CA,<br>x-cutting bedding. | 4109 | 61.79-62.13             | 0.34      | 5                          | <0.2      | 46        | <5        |
| 61.79-62.13 - Pale cream<br>colored silica flooded frer<br>zone 1-2% Py. 70° CA                                    |           |            | 61.79-62.13 - Pale cream<br>colored silica flooded frer<br>zone 1-2% Py. 70° CA                        | 4109 | 61.79-62.13             | 0.34      | 5                          | <0.2      | 46        | <5        |
|                                                                                                                    |           |            | 63.22-63.37 - Weak Qz - carb<br>flooded bx zone, 70° CA.                                               | 4110 | 62.48-63.22             | 0.74      | 5                          | <0.2      | 50        | <5        |
|                                                                                                                    |           |            |                                                                                                        | 4111 | 63.22-63.37             | 0.15      | 5                          | 0.2       | <1        | <5        |

| From - To<br>meters | Lithology                                                                                                                                                                                                                            | Alteration                                                                    | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                                  | No.                                  | Sample<br>Interval<br>m                                                | Lgth<br>m                            | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm                           | Cu<br>ppm                     | As<br>ppm                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------|--------------------------------------|----------------------------|-------------------------------------|-------------------------------|----------------------------|
|                     |                                                                                                                                                                                                                                      |                                                                               | 64.58-64.82 - 3 Qz stgs to<br>1cm. 30° CA. 2-3% Po,<br>Tr Cp in veins.                      | 4112<br>4113<br>4114                 | 63.37-64.58<br>64.58-64.82<br>64.82-65.94                              | 1.21<br>0.24<br>1.12                 | 5<br>5<br>5                | <0.2<br><0.2<br>0.2                 | 39<br>6<br>73                 | <5<br>5<br><5              |
|                     |                                                                                                                                                                                                                                      |                                                                               | 68.40-69.09 - Zone of<br>fracturing, 45° CA.<br>2, 1cm carb stgs. Barren.                   | 4115<br>4116<br>4117                 | 67.46-68.40<br>68.40-69.09<br>69.09-70.34                              | 0.94<br>0.69<br>1.25                 | 5<br>5<br>5                | <0.2<br>0.2<br><0.2                 | 56<br>14<br>17                | 5<br><5<br><5              |
|                     |                                                                                                                                                                                                                                      |                                                                               | 72.15-73.35 - 1cm Qz stg<br>25° CA. 2-3% Po, tr Cp                                          | 4118<br>4119<br>4120                 | 71.70-72.04<br>72.04-73.35<br>73.35-73.56                              | 0.34<br>1.31<br>0.21                 | 5<br>5<br>5                | <0.2<br><0.2<br>0.2                 | 77<br>68<br>86                | <5<br><5<br><5             |
| 76.83 - 77.08       | QUARTZ VEIN<br>Strong vein. Lt blu-gy to white Qz vein<br>~10cm wide true width.<br>~3% @ Py and Po, tr Cp<br><br>Py in f.g. cubes, diss and in masses.<br>~2% dark gray earthy, sub-metallic mineral.<br>Vein ~20° CA.              |                                                                               | 76.83-77.08 - Qz vein<br>Py, Po, Cp                                                         | 4121<br>4122<br>4123<br>4124<br>4125 | 75.15-75.32<br>75.32-76.79<br>76.79-77.11<br>77.11-77.72<br>79.7-80.62 | 0.17<br>0.47<br>0.32<br>0.61<br>0.92 | 5<br>5<br>10<br>5<br>30    | <0.2<br><0.2<br><0.2<br><0.2<br>0.2 | 130<br>114<br>164<br>62<br>38 | <5<br><5<br><5<br><5<br><5 |
|                     |                                                                                                                                                                                                                                      |                                                                               | 80.62-80.93 - Qz - Carb<br>flooded frcr zone. Distinct<br>carb stringer, 1cm at 60° CA.     | 4126<br>4127                         | 80.62-80.93<br>80.93-81.53                                             | 0.31<br>0.60                         | 50<br>5                    | 0.2<br>0.2                          | 324<br>58                     | 5<br><5                    |
| 77.08 - 91.70       | SANDSTONE - SILTSTONE<br>Dk gy to light cream colored (alt of dark<br>marterial), sil, f.g. sdst to cherty stst.<br>Mostly vfg sdst. Cut by abdt hairline<br>and stringers 30°-90° to CA, commonly<br>with a light colored alt halo. | 78.-81. - Mottled lt gr-<br>gy sil alt zone. Minor<br>Py along hairline frcrs | Sporadic Py, Po and Cp min<br>@ ~2%<br>83.6-83.88 - 0.5 carb stg<br>20° CA. Py ~10% in stg. | 4128                                 | 83.60-83.88                                                            | 0.28                                 | 5                          | 0.4                                 | 82                            | <5                         |



| From - To<br>meters | Lithology                                                                                                                                                                                                                                                                                                      | Alteration | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                                       | No.  | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------|------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
|                     | 78.7 - Thin bdd 20° CA. Light gn-gy alt partially obliterating bds.                                                                                                                                                                                                                                            |            | 84.75-85.32 - Zone of several Qz - carb stgs 30°-45° CA. 2mm - 1cm Vuggy with 2-3% Po, <1% Py    | 4129 | 84.75-85.32             | 0.57      | 5                          | <0.2      | 30        | <5        |
| 91.70-128.71        | GABBRO                                                                                                                                                                                                                                                                                                         |            | 89.85-90.07 - 2, 0.5cm conjugate frcrs @ 30° CA. One with 25% Py.                                | 4130 | 89.85-90.07             | 0.22      | 5                          | 0.2       | 164       | <5        |
|                     | 91.7-93.27 - Chill margin. Sharp contact at ~45° CA. No obvious alteration in sediment. 20cm into dyke - massive, v.f.g. dk gn-gy mod sil material (looks like sil stst?) Vague light coloured gn-gy rdd phenos to 2mm appear gradationally.                                                                   |            | 90.07-91.70 - contact zone. <1% diss Po. 91.70-93.27 - Chill margin                              | 4131 | 90.07-91.70             | 1.63      | 5                          | <0.2      | 78        | <5        |
|                     | 91.9-93.27 Porphyry - grading to m.g. equigranular gabbro.                                                                                                                                                                                                                                                     |            | 97.06-97.22                                                                                      | 4132 | 91.70-93.27             | 1.57      | 5                          | <0.2      | 154       | <5        |
|                     | 93.27 - M.G. gabbro. CI ~60 + Mafics dark gn, altered to chlorite, and appear to form a gm for ~25% stubby, white subhedral feld phenos av +2mm. Non to weakly magnetic 1-2% (av) Py diss and along frcrs. Locally to 5%. 5% black metallic - non mag (rutile?) Po - <1 to 5% diss. Cp <1% predom along frcrs. |            | 97.13 - 1cm Qz stg. 50° CA. 20% Po                                                               | 4133 | 97.06-97.22             | 0.16      | 5                          | <0.2      | 161       | <5        |
|                     |                                                                                                                                                                                                                                                                                                                |            | 97.22-98.29                                                                                      | 4134 | 97.22-98.29             | 1.03      | 5                          | 0.2       | 196       | <5        |
|                     |                                                                                                                                                                                                                                                                                                                |            | 97.8-98.0 - B.C. - Sheared 20° CA. Minor go, Qz flooding. Py ~2%                                 | 4135 | 98.29-98.60             | 0.31      | 5                          | 0.4       | 422       | <5        |
|                     |                                                                                                                                                                                                                                                                                                                |            | 98.29-98.6 - Qz carb stgs to 0.5cm w/ 15% Py. Whole zone frcr'd, chloritic. Texture obliterated. | 4136 | 98.60-98.76             | 0.16      | 5                          | 0.2       | 398       | <5        |
|                     |                                                                                                                                                                                                                                                                                                                |            | 98.64-98.70 - VEIN                                                                               | 4137 | 98.76-99.43             | 0.67      | 5                          | <0.2      | 251       | <5        |
|                     |                                                                                                                                                                                                                                                                                                                |            | Qz - carb 5 cm true width (at ~70° CA.) 10% @ Py, Po asso with Qz in core of vein.               | 4138 | 99.43-99.64             | 0.21      | 5                          | 0.2       | 148       | <5        |
|                     |                                                                                                                                                                                                                                                                                                                |            |                                                                                                  | 4139 | 99.64-101.14            | 1.50      | 5                          | <0.2      | 209       | <5        |
|                     |                                                                                                                                                                                                                                                                                                                |            |                                                                                                  | 4140 | 102.37-102.79           | 0.42      | 5                          | 0.2       | 159       | <5        |

| From - To<br>meters | Lithology                                                                                                                                                                              | Alteration | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                                                          | No.  | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------|------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
|                     | Gabbro is in general, metal rich.                                                                                                                                                      |            | 99.43-99.64 - Qz carb flooded<br>bx zone. (weak) <1% @ Py, Po<br>99.64-101.14 - fresh<br>gabbro.                    |      |                         |           |                            |           |           |           |
|                     |                                                                                                                                                                                        |            | 102.37-102.79 - B.C. with lcm<br>Qz - carb stg along limonitic<br>frcr, 30° CA. Minor go 2%<br>Py in vein and host. |      |                         |           |                            |           |           |           |
|                     |                                                                                                                                                                                        |            | 104.24-104.54 - Qz stg<br>35° CA. 20% Po, tr Cp.                                                                    | 4141 | 104.24-104.54           | 0.30      | 150                        | <0.2      | 266       | <5        |
|                     |                                                                                                                                                                                        |            | 108.2-108.49 - lcm carb<br>flooded shear with 15% Py<br>1/2 cm Qz stg 30° CA with<br>~20% Po.                       | 4142 | 108.20-108.49           | 0.29      | 130                        | <0.2      | 118       | <5        |
|                     |                                                                                                                                                                                        |            |                                                                                                                     | 4143 | 113.19-113.38           | 0.19      | 130                        | <0.2      | 141       | <5        |
|                     |                                                                                                                                                                                        |            | 113.19-113.38 - Shear zone.<br>Mafics ground to f.g. dk gn                                                          | 4144 | 113.38-114.0            | 0.62      | 70                         | <0.2      | 322       | <5        |
|                     |                                                                                                                                                                                        |            | mass. 2cm olivine green core<br>with 5% Po.                                                                         | 4145 | 114.0-114.15            | 0.15      | 110                        | 0.2       | 879       | <5        |
|                     | 114.64-114.95 - Typical small vein zone.<br>Rock sheared to fine grained sil chloritic<br>material. Fsp xls broken up and altered to<br>a dark gn. lcm Qz stg 30° CA.<br>15% Po, 5% Cp |            | 114.0-114.75 - 2 Qz stgs 60°<br>and 30° CA. 20% Po, tr Cp                                                           | 4146 | 114.15-114.64           | 0.49      | 70                         | <0.2      | 224       | <5        |
|                     |                                                                                                                                                                                        |            |                                                                                                                     | 4147 | 114.64-114.95           | 0.31      | 100                        | <0.2      | 436       | <5        |
|                     |                                                                                                                                                                                        |            | 114.64-114.95 - lcm Qz vein<br>30° CA. 15% Po, 5% Cp                                                                | 4148 | 114.95-115.80           | 0.85      | 110                        | <0.2      | 456       | <5        |
|                     |                                                                                                                                                                                        |            |                                                                                                                     | 4149 | 115.80-117.35           | 1.55      | 20                         | <0.2      | 278       | <5        |
|                     | 114.95-115.80 - similar to above. Fabric<br>at ~30° CA. Rock is competent. Could<br>be a shear in fresh intrusive which                                                                |            | 115.80-117.35 - Po, Cp along<br>hairline frcrs. Po ~4%                                                              | 4150 | 117.35-118.68           | 1.33      | 20                         | <0.2      | 273       | <5        |
|                     |                                                                                                                                                                                        |            |                                                                                                                     | 4151 | 118.68-118.83           | 0.15      | 40                         | <0.2      | 170       | <5        |
|                     |                                                                                                                                                                                        |            | Cp 1-2%                                                                                                             |      |                         |           |                            |           |           |           |

| From - To<br>meters | Lithology                                                                                                                                                                                                                                                                                                                                      | Alteration | Mineralization/Sul-<br>phides/Structure/<br>Core Condition                                                                                                                                                                                      | No.                          | Sample<br>Interval<br>m                                         | Lgth<br>m                    | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm                  | Cu<br>ppm                 | As<br>ppm            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------|------------------------------|----------------------------|----------------------------|---------------------------|----------------------|
|                     | re-healed. 5% Po streaked out parallel to<br>foliation.                                                                                                                                                                                                                                                                                        |            | 118.74 - 1cm Qz vn 60° CA.<br>3% @ Po, Py<br>118.83-119.50 - carb in abdt<br>hairline frcrs. Wk bx.                                                                                                                                             | 4152                         | 118.83-119.50                                                   | 0.67                         | 10                         | <0.2                       | 225                       | <5                   |
|                     |                                                                                                                                                                                                                                                                                                                                                |            | 122.77-123.93 - 1cm Qz stg<br>sub-parallel CA. 10-25%<br>Py in stg                                                                                                                                                                              | 4153<br>4154                 | 122.77-123.93<br>123.93-124.30                                  | 1.16<br>0.37                 | 10<br>20                   | 0.2<br>0.2                 | 417<br>478                | <5<br><5             |
|                     |                                                                                                                                                                                                                                                                                                                                                |            | 123.93-124.30 - 2, 1cm Qz<br>stgs 60° CA in sheared zone                                                                                                                                                                                        | 4155<br>4156                 | 124.30-125.42<br>125.42-127.20                                  | 1.12<br>1.78                 | 10<br>30                   | <0.2<br><0.2               | 332<br>220                | <5<br>5              |
|                     |                                                                                                                                                                                                                                                                                                                                                |            | Stgs with ~10-15% @ Py, Po                                                                                                                                                                                                                      |                              |                                                                 |                              |                            |                            |                           |                      |
| 128.71-129.54       | QUARTZ VEIN - SHEARED ZONE<br>Lt - dk gy Qz with minor gy carbonate as<br>late stage vug filling. 45° CA. Sheared.<br>~20cm core of soft greenish gy mineral<br>(probably f.g. chlorite) and calcite.<br>Mineralization associated predom with Qz. Over<br>interval.<br>5% @ Py and Po, 2-3% Cp<br><br>Minor go. on down hole selvage. 60° CA. |            | 124.30-125.42 - ~3% diss and<br>frcr Py. ~2% diss Po, tr Cp<br><br>127.2-127.45 - 2cm colloidal<br>Qz - carb vn. 30° CA.<br>1-2% @ Py, Po<br>128.1-128.71 - 1cm Qz stg sub-<br>parallel to CA. 3% @ Py, PO<br>Tr Cp.<br>128.71-129.54 - QZ VEIN | 4157<br>4158<br>4159<br>4160 | 127.2-127.45<br>127.45-128.71<br>128.71-129.54<br>129.54-131.10 | 0.25<br>1.26<br>0.83<br>1.56 | 5<br>5<br>50<br>5          | 0.4<br><0.2<br>0.6<br><0.2 | 226<br>285<br>2510<br>216 | <5<br><5<br>10<br><5 |

| From - To<br>meters | Lithology                                                                                                                                                                                                                                            | Alteration | Mineralization/Sul-<br>phides/Structure/<br>Core Condition        | No.  | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------|------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
| 129.54-131.8        | GABBRO<br>As above vein. MG gn equi-granular<br>intrusive. Mafics predom alt to a chloritic<br>(+?) mass. Stubby, white plag phenos with<br>vague, sub hedral boundaries ~30%. Av grain<br>size ~2-3 mm. CI ~60. Weakly to non mag.<br>1-2% diss Po. |            |                                                                   |      |                         |           |                            |           |           |           |
| 131.8-131.96        | DIABASE<br>Sharp contacts 30° CA. Vfg dk gy gm with<br>~10% Hb laths to 3mm long. Sub - trachytic.<br>10% rdd Qz amygdules av ~2mm in diameter.<br>10% sub-hedral stubby plag phenos to 2mm.                                                         |            |                                                                   |      |                         |           |                            |           |           |           |
| 131.96-136.50       | GABBRO                                                                                                                                                                                                                                               |            |                                                                   | 4161 | 135.63-136.50           | 0.87      | 5                          | <0.2      | 452       | <5        |
| 136.5-136.63        | QUARTZ VEIN<br>~9 cm true width. Lt dk gy Qz at 45° to CA.<br>20% Po, 5% Py, 2% Cp                                                                                                                                                                   |            | 136.5-136.63 - Qz vn. Po,<br>Py, Cp                               | 4162 | 136.50-136.63           | 0.13      | 50                         | 0.4       | 1785      | <5        |
|                     |                                                                                                                                                                                                                                                      |            | 138.22-138.60 - L-dk gy Qz<br>vn ~60° CA. 5% @ Py,<br>Po, 2% Cp   | 4163 | 136.63-137.40           | 0.77      | 5                          | <0.2      | 543       | <5        |
|                     |                                                                                                                                                                                                                                                      |            |                                                                   | 4164 | 137.40-138.22           | 0.82      | 10                         | <0.2      | 517       | <5        |
|                     |                                                                                                                                                                                                                                                      |            |                                                                   | 4165 | 138.22-138.60           | 0.38      | 980/0.049                  | 1.0       | 1510      | 105       |
| 136.63-138.22       | GABBRO                                                                                                                                                                                                                                               |            | 138.84-139.10 - as above.<br>70° CA, minor carb in<br>core of vn. | 4166 | 138.60-138.84           | 0.24      | 5                          | 0.4       | 625       | 5         |
| 138.22-139.10       | QUARTZ VEIN ZONE<br>Sharp contacts. Non vuggy veins.                                                                                                                                                                                                 |            |                                                                   | 4167 | 138.84-139.10           | 0.26      | 60                         | 0.8       | 889       | 10        |

| From - To<br>meters | Lithology                                                                        | Alteration | Mineralization/Sulphides/Structure/<br>Core Condition                                                                                                                    | No.                  | Sample<br>Interval<br>m                         | Lgth<br>m            | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm            | Cu<br>ppm         | As<br>ppm      |
|---------------------|----------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------|----------------------|----------------------------|----------------------|-------------------|----------------|
| 139.10-139.33       | GABBRO                                                                           |            | 141.43-141.75 - Zone of white<br>Qz veining to 3cm. 30° CA.<br>1-2% @ Py, Po, tr Cp                                                                                      | 4168<br>4169         | 139.10-140.20<br>140.20-141.43                  | 1.10<br>1.23         | 5<br>5                     | <0.2<br><0.2         | 330<br>723        | 5<br><5        |
| 139.33-140.2        | DIABASE                                                                          |            |                                                                                                                                                                          | 4170                 | 141.43-141.75                                   | 0.32                 | 10                         | <0.2                 | 285               | <5             |
|                     | As 131.8-139.6 - Non amygdaloidal.<br>bx. Hairline calcite stringers throughout. |            | 142.75 - 1-2cm blu-gy Qz<br>vn 45° CA. 5% Po. Tr Po                                                                                                                      | 4171<br>4172         | 141.75-142.17<br>142.17-142.54                  | 0.42<br>0.37         | 5<br>5                     | <0.2<br><0.2         | 268<br>11         | <5<br>5        |
| 140.2-142.17        | GABBRO                                                                           |            |                                                                                                                                                                          |                      |                                                 |                      |                            |                      |                   |                |
|                     | F - M.G., <1% Py and Po along frcrs.                                             |            | 142.92-143.73 - ~3% @ diss<br>Py, Po                                                                                                                                     | 4173<br>4174         | 142.54-142.92<br>142.92-143.73                  | 0.38<br>0.81         | 20<br>5                    | <0.2<br><0.2         | 278<br>468        | <5<br><5       |
| 142.17-142.6        | DIABASE                                                                          |            |                                                                                                                                                                          |                      |                                                 |                      |                            |                      |                   |                |
|                     | As 139.33-140.2. 50° CA. 3cm barren<br>white Qz vn along lower selvage.          |            | 146.30-146.48 - 2cm blu-gy<br>Qz vn. 45° CA.<br>2-3% @ Py, Po                                                                                                            | 4175<br>4176<br>4177 | 145.16-146.30<br>146.30-146.48<br>146.48-147.37 | 1.14<br>0.18<br>0.89 | 5<br>50<br>5               | <0.2<br><0.2<br><0.2 | 486<br>687<br>421 | <5<br><5<br><5 |
| 142.6-181.35        | GABBRO                                                                           |            |                                                                                                                                                                          |                      |                                                 |                      |                            |                      |                   |                |
|                     | M.G. Sulphides <1%. Non magnetic.                                                |            | 149.33 - 1cm blu-gy Qz<br>60° CA. 5% @ Py, Po. 1% Cp<br>154.17-155.03 - zone of<br>several 1cm Qz veins at<br>45° CA. Vns contain<br>1-5% sulphides, predom Po<br>and Py | 4178<br>4179         | 149.23-149.38<br>154.17-155.03                  | 0.15<br>0.86         | 5<br>5                     | <0.2<br><0.2         | 295<br>224        | <5<br><5       |
|                     | By end of hole, sulphides <1% in gabbro.                                         |            | 157.2-157.73 - Weak frcr<br>zone healed with 1-2mm Qz<br>stgs 45° CA. Py ~2% over                                                                                        | 4180                 | 157.20-157.73                                   | 0.53                 | 5                          | <0.2                 | 178               | 5              |

| From - To<br>meters       | Lithology | Alteration  | Mineralization/Sul-<br>phides/Structure/<br>Core Condition       | No.  | Sample<br>Interval<br>m | Lgth<br>m | Au<br>ppb - or<br>ppb/oz/T | Ag<br>ppm | Cu<br>ppm | As<br>ppm |
|---------------------------|-----------|-------------|------------------------------------------------------------------|------|-------------------------|-----------|----------------------------|-----------|-----------|-----------|
| 142.6-181.35<br>(Cont'd.) | 181.35    | END OF HOLE | interval (to 15% in stgs)                                        |      |                         |           |                            |           |           |           |
|                           |           |             | 159.34-159.64 - 2cm carb vn<br>70° CA. 10% Py                    | 4181 | 159.34-159.64           | 0.30      | 5                          | 0.2       | 193       | <5        |
|                           |           |             | 160.0-161.22 - B.C. Frctrs<br>and minor go. 45°-60° CA.          |      |                         |           |                            |           |           |           |
|                           |           |             | 161.05 - 3cm white calcite<br>vein 45° CA. 1-2% Py,<br>Minor go. | 4182 | 160.85-161.22           | 0.37      | 5                          | <0.2      | 110       | <5        |
|                           |           |             | 168.85-169.15 - B.C. 2cm<br>carb stg zone. 30° CA. Barren        | 4183 | 168.90-169.15           | 0.25      | 5                          | <0.2      | 102       | <5        |
|                           |           |             | 172.84-173.17 - 2cm Qz - carb<br>stg zone. 30° CA. 1-2% Py       | 4184 | 172.84-173.17           | 0.33      | 5                          | <0.2      | 218       | <5        |
|                           |           |             | 178.42-178.84 - 2cm white,<br>vuggy Qz-carb vein at<br>30° CA.   | 4185 | 178.42-178.84           | 0.42      | 5                          | <0.2      | 81        | <5        |



**APPENDIX VI**

**ABBREVIATIONS USED IN  
MINERAL OCCURRENCES REFERENCES**



ABBREVIATIONS USED IN MINERAL OCCURRENCES SECTION

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AR      | B.C. Ministry of Energy, Mines, and Petroleum Resources Assessment Report                                                                                                   |
| BCDM    | British Columbia Department of Mines                                                                                                                                        |
| Bull    | Bulletin                                                                                                                                                                    |
| Carson  | Metallogenic Study of Vancouver Island with Emphasis on the Relationships of Mineral Deposits to Plutonic Rocks; D.J.T. Carson, Carleton University Ph.D. Thesis, May, 1968 |
| CIMM    | Canadian Institute of Mining and Metallurgy                                                                                                                                 |
| CMH     | Canadian Mines Handbook                                                                                                                                                     |
| EBC     | Exploration in British Columbia; B.C. Ministry of Energy, Mines and Petroleum Resources                                                                                     |
| GEM     | Geology, Exploration and Mining in British Columbia; B.C. Department of Mines and Petroleum Resources                                                                       |
| GSC     | Geological Survey of Canada                                                                                                                                                 |
| Gunnex  | Mineral Occurrences, E&N Land Grant, Vancouver Island, B.C.; Gunnex Ltd., 1966                                                                                              |
| MER     | B.C. Mineral Exploration Review; B.C. Ministry of Energy, Mines and Petroleum Resources                                                                                     |
| Minfile | B.C. Ministry of Energy, Mines and Petroleum Resources Minfile, Feb. 2, 1984                                                                                                |
| MMAR    | B.C. Ministry of Mines Annual Report                                                                                                                                        |
| NM      | Northern Miner                                                                                                                                                              |
| P       | Paper                                                                                                                                                                       |
| TML     | Today's Market Line                                                                                                                                                         |
| VSW     | Vancouver Stockwatch                                                                                                                                                        |





**APPENDIX VII**

**CONVERSION FACTORS FOR METRIC UNITS**



### Conversion Factors for Metric Units

|                   |                                         |       |
|-------------------|-----------------------------------------|-------|
| 1 inch            | = 25.4 millimetres                      | (mm)  |
|                   | or 2.54 centimetres                     | (cm)  |
| 1 cm              | = 0.394 inch                            |       |
| 1 foot            | = 0.3048 metre                          | (m)   |
| 1 m               | = 3.281 feet                            |       |
| 1 mile            | = 1.609 kilometres                      | (km)  |
| 1 km              | = 0.621 mile                            |       |
| 1 acre            | = 0.4047 hectares                       | (ha)  |
| 1 ha              | = 2.471 acres                           |       |
| 1 ha              | = 100 m x 100 m = 10,000 m <sup>2</sup> |       |
| 1 km <sup>2</sup> | = 100 ha                                |       |
| 1 troy ounce      | = 31.103 grams                          | (g)   |
| 1 g               | = 0.032 troy oz                         |       |
| 1 pound (lb)      | = 0.454 kilogram                        | (kg)  |
| 1 kg              | = 2.20 lb                               |       |
| 1 ton (2000 lb)   | = 0.907 tonne                           | (t)   |
| 1 tonne           | = 1.102 ton = 2205 lb                   |       |
| 1 troy ounce/ton  | = 34.286 g/t                            |       |
| 1 g/tonne         | = 0.0292 troy oz/ton                    |       |
| 1 g/t             | = 1 part per million                    | (ppm) |
| 1 ppm             | = 1000 parts per billion                | (ppb) |
| 10,000 g/t        | = 1%                                    |       |



**APPENDIX VIII**

**ABBREVIATIONS USED IN  
ROCK SAMPLE DESCRIPTIONS AND  
DIAMOND DRILL LOGS**



## ABBREVIATIONS

MINERALS

|          |               |
|----------|---------------|
| AB       | Albite        |
| AS       | Arsenopyrite  |
| CB, CARB | Carbonate     |
| CP       | Chalcopyrite  |
| CHL      | Chlorite      |
| CZ       | Chlinozoisite |
| DI       | Diopside      |
| EP       | Epidote       |
| FSP      | Feldspar      |
| GL       | Galena        |
| GT       | Garnet        |
| HM       | Hematite      |
| HB       | Hornblende    |
| LEUC     | Leucoxene     |
| MT       | Magnetite     |
| MC       | Malachite     |
| PLAG     | Plagioclase   |
| PY       | Pyrite        |
| PX       | Pyroxene      |
| PO       | Pyrrhotite    |
| QZ       | Quartz        |
| SER      | Sericite      |
| SL       | Sphalerite    |

LITHOLOGY

|          |                             |
|----------|-----------------------------|
| ARG      | Argillite                   |
| BAS      | Basalt                      |
| CARB     | Carbonate                   |
| CHT      | Chert                       |
| XLT      | Crystal Tuff                |
| DIAB     | Diabase                     |
| DIOR     | Diorite                     |
| FHP      | Feldspar Hornblende         |
|          | Porphyry                    |
| FBX      | Flow Breccia                |
| GABB     | Gabbro                      |
| HYAL     | Hyaloclastite               |
| LMST     | Limestone                   |
| MAF      | Mafic (Basalt,<br>Andesite) |
| QFP      | Quartz Feldspar             |
|          | Porphyry                    |
| SDST     | Sandstone                   |
| STST     | Siltstone                   |
| SKN      | Skarn                       |
| VN, VNLT | Vein, Veinlet               |

COLOUR

|         |       |
|---------|-------|
| BLK     | Black |
| BLU     | Blue  |
| BRN, BN | Brown |
| GN      | Green |
| GY      | Gray  |
| OL      | Olive |
| RD      | Red   |
| WHT     | White |

TEXTURES AND ALTERATION

|            |                         |
|------------|-------------------------|
| ALT'D      | Altered                 |
| AMYG'L     | Amygdaloidal            |
| ANG        | Angular                 |
| ANH        | Anhedral                |
| BDD        | Bedded                  |
| BX'D, BX'N | Brecciated, Brecciation |
| CHTY       | Cherty                  |
| CHL'C      | Chloritic               |
| XLLINE     | Crystalline             |
| DISS       | Disseminated            |
| EP'C       | Epidotitic              |
| EUH        | Euhedral                |
| FG         | Fine Grained            |
| MG         | Medium Grained          |
| CG         | Coarse Grained          |
| GRAD       | Gradational             |
| HM'C       | Hematitic               |
| PY'C       | Pyritic                 |
| RDD        | Rounded                 |
| LAM'D      | Laminated               |
| MSV        | Massive                 |
| MED        | Medium (Bedded), 2-10mm |
| P          | Porphyry, Phyric        |
| SER'C      | Sericitic               |
| SIL, SIL'D | Siliceous, Silicified   |
| SUB-ANG    | Sub Angular             |
| SBH        | Subhedral               |
| TK         | Thick (Bedded), >10mm   |
| VES        | Vesicular               |

GENERAL

|            |                       |
|------------|-----------------------|
| ABDT       | Abundant              |
| AMYG       | Amygdule              |
| AV         | Average               |
| BDG        | Bedding               |
| BX         | Breccia               |
| BC         | Broken Ground         |
| CMT        | Cement                |
| CM         | Chill Margin          |
| XL         | Crystal               |
| CT         | Contact               |
| CA         | Core Axis             |
| ∅, DIA     | Diameter              |
| FRCR       | Fracture              |
| GO         | Gouge                 |
| GND        | Ground                |
| GM         | Groundmass            |
| LAM        | Laminated             |
| MOD        | Moderate              |
| NTWK       | Network               |
| PHENO      | Phenocryst            |
| QCV        | Quartz Carbonate Vein |
| QV         | Quartz Vein           |
| SHR        | Shear                 |
| STG        | Stringer              |
| STR, STRLY | Strong, Strongly      |
| SX         | Sulphides             |
| W, w̄, w/  | With                  |



**APPENDIX IX**

**RAW AND FRASER  
FILTERED VLF-EM DATA**















