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*pocket*

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

21,691



Province of  
British Columbia

Ministry of  
Energy, Mines and  
Petroleum Resources

ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) Prospecting, Geochemical, Geological	TOTAL COST \$15,200
--	------------------------

AUTHOR(S) Edward (Ted) W. Hayes SIGNATURE(S) *E. W. Hayes*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED June 26/91 YEAR OF WORK 1990-91

PROPERTY NAME(S) GREEN GROUP

COMMODITIES PRESENT Au, Ag, Cu, Zn

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION Nanaimo NTS 92F 1W

LATITUDE 43°09'N LONGITUDE 124°23'W

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

OWNER(S) Goldbank Ventures Ltd.

(1) (2)

MAILING ADDRESS  
110 Main Floor, 625-4th Ave. SW  
Calgary, Alberta T2P 0K2

OPERATOR(S) (that is, Company paying for the work)

(1) as above (2)

MAILING ADDRESS

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

The property is underlain by NNW to NE trending Sicker Group rocks intruded to the west by a large body of Island Intrusives and locally overlain by Nanaimo Group sediments in central and south areas. Prospective and geochemical targets were looked at within a NNW trending 800 metre wide zone of ankerite alteration with quartz veins.

REFERENCES TO PREVIOUS WORK Roap Resources 1985-1987; International Capri Resources 1988-1989

GENERAL INFORMATION		APPROXIMATE TOTAL AREA OF THE PROJECT		ON WHICH CLAIMS	ESTIMATED COST
Name of Project (Scale, area)		1-2500 5 km <sup>2</sup>		Red 1-6	\$ 4,000
Type of Project (Mineral, location)					
Geological					
Geophysical					
Geochemical					
Other					
Number of samples analysed for (total)					
Soil	392 Au ICP	Red 1-6	Blue 1-6		
Soil	14 Au ICP	Red 1-6	Blue 1-6		
Rock	83 Au ICP	Green Group			7,509
Other					
Drift (m) (total metres; number of holes, size)					
Core					
Iron core					
RELATED TECHNICAL					
Sampling/assaying					
Petrographic					
Mineralogic					
Metallurgic					
PROSPECTING (scale, area)		1-10000 17 km <sup>2</sup>		Green Group	3,450
PREPARATORY/PHYSICAL					
Legal surveys (scale, area)					
Topographic (scale, area)					
Photogrammetric (scale, area)					
Transect (kilometres)					
Transect (kilometres)					
Hand trenching (metres)		Hand trenching 1 m <sup>2</sup>		Red 1 - 2	900
Other (metres)					
				<b>TOTAL COST</b>	<b>\$15,859</b>

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted Date	Rept. No.			Information Class

## SUMMARY

An exploration program of prospecting, geological mapping, soil sampling and stream sediment sampling was carried out on the Green Group mineral claims between June 27, 1990 and June 1, 1991.

The Green Group comprises 76 units in the Nanaimo Mining Division, covering favourable Sicker Volcanic terrain.

The work entailed taking 382 soil samples, 83 rock samples and 16 stream sediment samples, giving results of up to 4.68 oz/T Au from surface grab samples, 42 900 ppb Au from stream sediment samples and 200 000 ppb Au from soil sampling. Visible gold was noted in numerous surface samples.

A major carbonate-altered northerly trending structure has been recognized. The structure has now been traced for 10 km across the entire property, ranging in width from 300 m to 600 m.

From these results, further work on the Green Group is warranted.

## 1.0 INTRODUCTION

This report represents the compilation of field work carried out in fulfillment of assessment requirements, at the request of Goldbank Ventures Ltd. A discussion of the field work includes results from previous years.

Work conducted during this period included compilation of previous data, stream sediment, soil and rock sampling, prospecting, and geological mapping.

## 2.0 LOCATION, ACCESS, TITLE

The Green Group property is located approximately 35 km southwest of Nanaimo, between Fourth Lake and Green Mountain, in the Nanaimo Mining Division of B.C. The claims centre at approximately 49°03'N latitude, 124°23'W longitude on NTS mapsheet 92F/1. Fletcher Challenge Canada owns the timber rights in this area.

The property is accessible via the Nanaimo Lakes road which branches west from Highway 1 just north of Cassidy. At the Green Creek/Nanaimo River junction, a paved road branches south and runs through the property. Numerous logging roads provide access to most parts of the property, by two- and four-wheel drive vehicles.

The Red, Blue and Green claims lie within the most easterly mountainous region of Vancouver Island. The highest point in the area is Green Mountain at 1465 m and lowest elevations along the main haul roads are between 300 and 400 m. While steep cliffs are present in several areas, the overall topography is of rounded hills. All of the area has undergone continental glaciation during the Pleistocene and till deposits are extensive in broader river valleys, especially at the confluence of the Nanaimo River and Green Creek. Plantation forests of Douglas fir, hemlock and red cedar cover lower slopes. Large areas have been logged by Fletcher Challenge Canada Ltd.

Claim information is summarized in the following table:

Table I - Green Group Claim Information

Claim	Record Nos.	Units	Owner	Anniv. Date	Record Year
Green 1	5006	18	Goldbank	Nov 21/91	1990
Green 2	5007	20	Ventures	Nov 21/91	
Green 3	5008	20	Ltd.	Nov 21/91	
Blue 1, 2	3880, 3881	2		June 26/91	
Blue 3, 4	3882, 3883	2			
Blue 5, 6	3884, 3885	2			
Red I, II	3868, 3869	2			
Red III, IV	3870, 3871	2			
Red V, VI	3872, 3873	2			
Red VII, VIII	3874, 3875	2			
Red IX, X	3876, 3877	2			
Red XI, XII	3878, 3879	2			


The anniversary dates shown have not been updated in reference to the work recorded in this report.

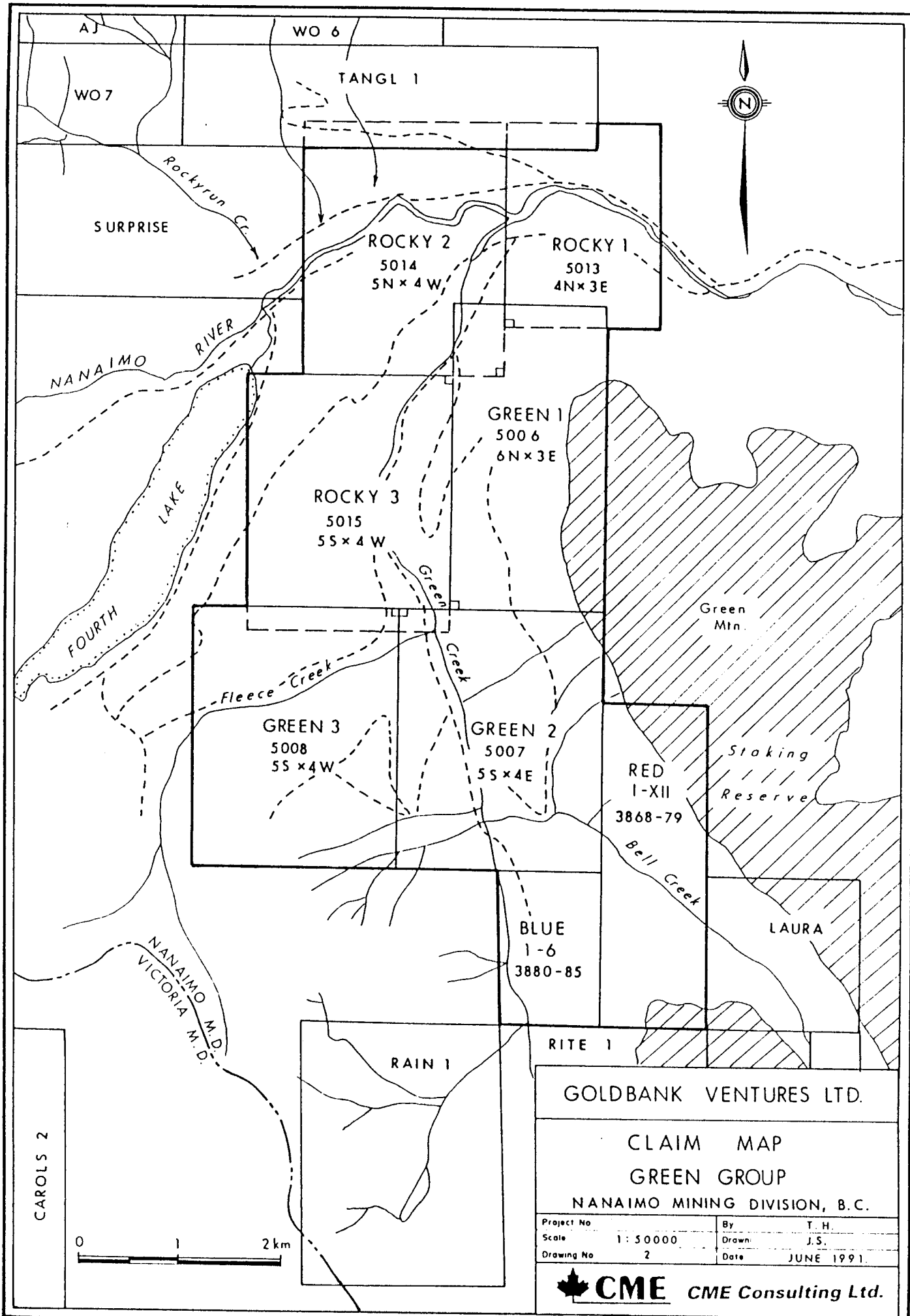


GOLDBANK VENTURES LTD.

GENERAL LOCATION MAP  
GREEN GROUP

Project No:	By:
Scale: 1 : 8 000 000	Drawn: J. S.
Drawing No: 1	Date: JUNE 1991

 **CME** CME Consulting Ltd.



**GOLDBANK VENTURES LTD.**

**CLAIM MAP**  
**GREEN GROUP**  
NANAIMO MINING DIVISION, B.C.

Project No.	By	T. H.
Scale	Drawn	J.S.
Drawing No.	Date	JUNE 1991.

**CME** CME Consulting Ltd.

### 3.0 PREVIOUS WORK

Government geological work in the Port Alberni to Nanaimo area includes mapping by C.H. Clapp (1912 and 1914), J.E. Muller and D.J.T. Carson (1969), and J.E. Muller (1977 and 1980).

In 1962, Hunting Survey Corp. Ltd. flew a regional aeromagnetic survey over an area including the Sicker claims, with some follow-up geological mapping in the Fourth Lake area.

From 1963 to 1965, Gunnex Ltd. carried out a program of geological mapping as well as soil sampling, magnetometer, and EM surveys on a grid which covered portions of the Green 1 and 2 claims. In addition, an SP survey over the highest magnetic anomaly and regional prospecting and silt and soil sampling were done. Several magnetic highs at or near the contact of diorite with andesitic cherty tuff and chert were believed to be caused by possible skarn mineralization at a depth of at least 300 m. Soil sampling revealed a slightly anomalous area in the northern part of the grid (southern Green 1 claim) while the EM survey results were reported to be more encouraging in the southern half of the grid (southwestern Green 1 claim), although the EM crossovers were attributed to shear zones rather than mineralization. Only a few pieces of skarn float were found. A sample of mineralized diorite from the west central area of the Green 1 claim assayed 0.3% Cu.

In 1981, airborne VLF-EM and magnetometer surveys were flown over the present Green 1 and claims (then known as the Elk and Horn claims) by Western Geophysical Aero Data Ltd. for Tarbo Resources Ltd. Two zones of anomalous VLF-EM response were located in the northeast and southeast corners of the property, although flight lines are subparallel to local stratigraphy. Three localized magnetic anomalies which occur near mapped geological contacts (Sicker Group/Coast Intrusive) were also located. Prospecting in the areas of magnetic anomalies was recommended (B.C. Ministry of Energy, Mines, and Petroleum Resources Assessment Report 9140, referred to in Neale and Hawkins, 1984).

In September 1983, preliminary assessment of the Sicker 1 and 2 claims was carried out by MPH Consulting Limited for Jan International Resources Ltd. (Hawkins and Willoughby, 1983). Numerous exposures of sulphide-rich intermediate to felsic tuff, flows, and cherty tuff were located. Anomalous concentrations of Au (310 ppb) and Zn (324 ppm) were contained in two grab samples of pyritic cherty tuff. The Sicker 1 and 2 property was considered to have good potential for economic massive sulphide and/or quartz vein deposits. A two-phase exploration program consisting of geological mapping and sampling, soil sampling, linecutting, and ground magnetometer and VLF-EM surveys followed by diamond drilling was recommended based on results of this program.



In June 1984, MPH Consulting Limited conducted reconnaissance geological mapping and rock sampling for Sunfield Management Ltd. Lithochemical results of up to 20 ppb Au, 0.6 ppm Ag and 372 ppm Cu were returned from 35 grab samples collected from the claims (Neale and Hawkins, 1984).

In June 1985, MPH Consulting Limited conducted detailed geologic mapping, prospecting and sampling along the M-2 road in the northern portion of the property (Benvenuto, 1985; Thomae and Hawkins, 1987). This work outlined the lithologic succession and established that the pyritic sericitic schists had been derived from a basaltic protolith. Anomalous copper concentrations were found to characterize the basalts of the 'Sediment-Sill' unit and ankeritic alteration of basalts was apparently accompanied by anomalous lead. A pyritic fracture cutting the Buttle Lake Formation contained anomalous gold and copper. It was suggested that anomalous silver and copper associated with tungsten, bismuth and iron may indicate skarn mineralization near the contact of Buttle Lake limestone and Island Intrusions.

In October 1986, three days were spent on a prospecting and soil sampling program by MPH Consulting Limited for Roap Resources Inc. Fourteen rock samples and 108 soil samples were analyzed for gold and for 30 additional elements by ICP analysis (Thomae and Hawkins, 1987).

A sample of pyritic grey quartz vein contained anomalous silver (1.8 ppm), copper (180 ppm) as well as skarn associated elements: 340 ppm W, 570 ppm Bi and 14.71% Fe.

Nimbus Management Ltd. conducted a field program for Roap Resources Inc. from April 27 to May 26, 1987, involving a three to four person crew (Holtby and Hardy, 1987). Mapping as well as rock chip sampling (146 samples analyzed for Au, Ag, Cu, Pb, Zn) and soil sampling (845 samples on three grids analyzed for Au, As, Cu and Zn) were conducted. A total of 47 silt and 55 heavy mineral concentrate samples was collected from "streams with flowing water," and analyzed for Au, As, Cu and Zn. A number of silt samples contained highly anomalous gold and silver. A two-phase exploration program was outlined and recommended.

Previous work done on properties adjacent to the Green claims includes a 1981 prospecting program carried out by Canamin Resources Ltd. on the Tangl 1 claim, north of Green 1 claim. Various Sicker Group lithologies were mapped, including limestone of the Buttle Lake Formation, argillite and chert of the Sediment-Sill Unit, and intermediate volcanics of the Myra Formation. "Economic values" of gold were reported to occur in graphitic sediments and anomalous silver values in chert (Champigny, 1981).

In July, 1982 40.8 line-km of airborne EM and magnetometer surveys were flown over the Green Imperial claim just east of the Rush claims for

Imperial Metals Corp. (Quin, 1983). Results from the magnetometer survey appeared to indicate a fault; however, only two weak EM responses were delineated from the survey.

Exploration work was performed on the Sicker Rush property (Sicker 1 to 2, Rush 1 to 3, and Nan 1 to 7 claims) over the periods December 5 through 18, 1987 and January 8 through February 29, 1988. The fieldwork was carried out by MPH Consulting Limited personnel, under the direction of G.M. Lorenzetti, BSc. and J. Burlington, MSc., and supervision of T.G. Hawkins, PGeol.

Soil geochemistry, magnetometer and VLF-EM surveys were performed over the entire grid (21.9 line-km). The even numbered lines from line 4+00N through 12+00S, line 5+00S, and line 4+00S from grid B were selected for induced polarization survey (11.05 line-km). The M and M2 roads on the northern side of the Nanaimo River were also surveyed (3.2 line-km).

Detailed mapping (1:2500) was performed over the Grid A area, while reconnaissance mapping (1:10,000) was carried out over selected areas of the property, covering an area of approximately 15 km<sup>2</sup>.

The program was completed with 1002 m of NQ wireline diamond drilling of selected anomalies defined by the various surveys.

#### 4.0 REGIONAL GEOLOGY

The predominant rock units in the Port Alberni-Nitinat River area are those of the Upper Paleozoic Sicker Group and the Mesozoic Vancouver Group (Figure 2).

Recent government geological mapping has been carried out over the Cowichan Lake area by a number of geologists and compiled with previous work by J.T. Fyles, A. Sutherland Brown and P. Cowley (N.W.D. Massey, 1987). Massey uses the terminology introduced by Sutherland Brown (1986) and has proposed redivisions and renaming of the Sicker Group. However, Muller's terminology has been retained in this report due to its economic significance and generally wider acceptance in the industry (Muller 1977, 1980).

##### 4.1 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 Formation), 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** 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 and breccia unit, a middle thinly banded 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 volcanoclastic 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 synsedimentary breccias of light coloured volcanic and chert fragments in a matrix of black argillite.

The type locality of the Myra Formation is Myra Creek, at the south end of Buttle Lake. Here volcanoclastic 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. Both the Nitinat and Myra Formations were dated as Devonian and/or older by Muller (1980a).

The '**Sediment-Sill Unit**' (informal subdivision) 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 consist of a fine-grained, greenish black matrix containing feldspar phenocrysts up to more than 1 cm, commonly clustered in rosettes up to a few centimetres in diameter, producing a very distinctive "flower porphyritic" 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 Formation volcanics.

The **Buttle Lake 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.

The Buttle Lake Formation is up to 466 m thick. The age of the formation, on the basis of fossil dating, appears to be Middle Pennsylvanian, possibly 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 indicate that rocks of the Buttle Lake Formation are early Middle Pennsylvanian (Atokan) through Early Permian (probably Sakmarian) in age.

#### 4.2 Vancouver Group

The **Karmutsen Formation** volcanic rocks 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 consists mainly of dark grey to black, or dark green, tholeiitic pillow basalt, massive basalt, and pillow breccia. Flows are commonly aphanitic, 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** occurs south of Mt. Spencer. 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 Formation volcanics. It is composed of interbedded calcareous black argillite, calcareous greywacke and sandy to shaly limestone. The Quatsino and Parsons Bay Formations are considered to represent near and offshore basin facies, respectively, in the quiescent Karmutsen rift archipelago (Muller, 1981).

#### 4.3 Bonanza Group

The Bonanza Group stratigraphy varies considerably, 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. South of Mt. Spencer and south of Corrigan Creek, the Bonanza Group consists of light coloured andesite and latite breccia, tuff and flows with minor greywacke, argillite and siltstone. The Bonanza Volcanics are considered to be extrusive equivalents of the Island Intrusions and to be of Early Jurassic age.

#### 4.4 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 Volcanics 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 Intrusions with Quatsino Formation limestone and less abundantly with Buttle Lake Formation limestone.

#### 4.5 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, crossbedded 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.

**Tertiary (Catface or Sooke) Intrusions.** Sills and stocks of mainly hornblende-quartz diorite and dacitic hornblende-feldspar porphyry plus lesser leucocratic quartz monzonite intrude Nanaimo Group sedimentary rocks and Sicker Group rocks in the area.

#### 4.6 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 folds 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 monoclinical 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 northwesterly 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 semicontinual 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.

### **Economic Setting**

The Sicker Group, and to a lesser extent, the Vancouver Group of volcanics, have been explored intermittently since the 1890s for precious and base metal mineralization.

At Buttle Lake, the Myra Formation hosts Westmin Resources Ltd.'s volcanogenic massive sulphide deposit. Initially discovered in 1917, it was not recognized as a volcanogenic deposit until the late 1960s. Ore minerals including sphalerite, chalcopyrite, galena, tetrahedrite-tennantite, minor bornite and covellite are hosted by pyritic, rhyolitic to rhyodacitic volcanic and pyroclastic rocks of the Myra Formation.

Published reserves of the H-W mine are 13,901,000 tonnes averaging 2.2% Cu, 5.3% Zn, 0.3% Pb, 2.40 g/t (0.07 oz/ton) Au and 37.7 g/t (1.1 oz/ton) Ag (Walker, 1983). In the 3 years 1980 to 1982, 811,987 tonnes of ore were milled, producing 7,306,880 kg Cu, 43,706,118 kg Zn, 6,455,040 kg Pb, 1,740,000 g (56,000 oz) Au, 78,630,000 g (2,528,000 oz) Ag, and 58,500 kg Cd.

Another volcanogenic massive sulphide deposit in the Sicker Group is the Twin J Mine near Duncan on Mount Sicker. Two parallel orebodies, 46 m apart, each containing pyrite, chalcopyrite, sphalerite and minor galena in a barite quartz-calcite gangue and chalcopyrite in quartz, occur in schists believed to have been derived from felsic volcanics (Myra Formation).

Total production from 1898 to 1964 was 277,400 tonnes producing 1,383,803 g (44,491 oz) Au, 29,066,440 g (934,522 oz) Ag, 9,549,590 kg Cu and 20,803,750 kg Zn with at least 164,590 kg Pb and 4.5 kg Cd.

On the Lara property north of Cowichan Lake, Abermin Corporation has traced the polymetallic volcanogenic massive sulphide Coronation and Coronation Extension zones over a strike length of over 1500 m and to depths of 245 m. Average grades are 5.1 g/t Au, 111.4 g/t Ag, 0.81% Cu, 1.32% Pb, and 5.79% Zn over an average thickness of 3.9 m. A 162 m long high-grade zone within the Coronation zone averages 8.2 g/t (0.24 oz/ton) Au, 229.7 g/t (6.69 oz/ton) Ag, 1.5% Cu, 3.1% Pb, and 14.9% Zn over an average thickness of 3.4 m. Recent exploration has located other similar horizon(s) up to 2.4 km long parallel to the Coronation zone in the northern part of the property. The mineralized zones are hosted by felsic volcanics of the Myra Formation.

In a news release dated October 19, 1987, Abermin reported that work has commenced on a decline which will explore the Coronation zone, providing access to the ore zone on three levels. Future mining methods will be determined from testing of ground conditions. The mill design will be finalized following metallurgical testing of bulk samples.

In the Port Alberni area, five past producing mines occur. These include the Thistle mine, the Havilah mine, the Black Panther mine, the 3-W mine and the Vancouver Island Gold Mine. These and other mineral occurrences are shown in Figure 4 and described in detail in Neale (1984).

Vancouver Island Gold Mine is located on the Yellow claim adjacent to the Debbie property. Nexus Resource Corporation and Westmin Resources Ltd. are currently involved in an aggressive exploration program on the Debbie property and new discoveries have yielded intersections of up to 4.25 g/t Au over 11.34 m (0.124 oz/ton Au over 37.2 feet) and 3.50 g/t over 18.20 m (0.102 oz/ton Au over 59.7 feet) from the Mineral Creek Zone and 139.82 g/t Au over 14.36 m (4.078 oz/ton Au over 47.1 feet) and 38.98 g/t Au over 13.50 m (1.137 oz/ton Au over 44.3 feet) from the 900 Zone. A 1.9 km exploration adit which will provide access to the Mineral Creek and Linda gold zones is planned (Westmin Resources Ltd. News Release January 29, 1988).

On the Labour Day Lake property adjacent to the Sicker Rush property, Canamin Resources Ltd. and Falconbridge Ltd. have undertaken geophysical and geological exploration programs which have focused mainly on the Villalta Showing. This showing initially discovered by E. Specogna, comprises a gold bearing hematitic horizon which overlies the Buttle Lake Formation limestone. The crinoidal limestone is marked by numerous sink holes. It is overlain by andesitic and tuffaceous volcanic rocks beneath a major unconformity with the overlying Nanaimo Group sediments (Lisle, T.E., 1987).

The hematite layer has been partly investigated by 25 NQ/BQ and 10 Winkie drillholes over a north-northeast trend for approximately 390 m. Drilling at the exposed south end has indicated a near surface reserve in the range of 27210 to 31745 tonnes (30,000 to 35,000 tons) grading 4.32 g/t (0.126 oz/ton) gold (Carter, 1986).

South of the Villalta Showing and west of the Sicker Rush property, the Goldbrae/Nexus Nanaimo Lakes property contains skarn-type mineralization with up to 2.1% Cu over 14.5 m and 0.59% Cu, 0.62% Zn, 216.35 g/t (6.3 oz/ton) Ag and trace Au over 2.6 m. Skarn mineralization occurs in outcrops over a distance of 550 m with an average width of 150 m (Neale, 1988). Buttle Lake Formation limestone has been 'marblized' with the intrusion of a dioritic to granodioritic stock of the Jurassic Island Intrusions. Skarn minerals include garnet, epidote, actinolite and minor diopside, quartz, calcite and vesuvianite.



## 5.0 EXPLORATION PROGRAM

### Work Completed

Stream sediment samples were taken on the southeast area of the claim block to better define previous high Au numbers. These results led to taking soil along old logging roads that crosscut the area. Three roads were sampled that led to the finding of two separate quartz veins with visible gold. An area 600 m wide by 1000 m long was defined as carrying anomalous Au values. The area was prospected and geology mapped. The quartz veins were hand trenched and sampled. Two short soil lines were then taken to better define strikes of highgrade zones and the hand trenches channel sampled.

## 6.0 CONCLUSIONS

Within the Tuff units is a carbonate altered ankerite zone with 10-15% pyrite.

On the big scale, this zone varies from 100 m wide to 600 m wide and can be traced over 10 km.

The results clearly indicate that a lot more sampling needs to be done to better understand the gold mineralization.

## 7.0 RECOMMENDATIONS

Given the highly favourable results of the widely spaced soil lines, a more detailed grid covering the property with further trenching in areas of anomalous results is highly recommended.

The area to the north needs to be prospected in more detail and the area of interest gridded and trenched.

Respectfully submitted

Edward W. Hayes

### STATEMENT OF QUALIFICATIONS

I, E. W. (Ted) Hayes, do hereby certify:

1. That I am a prospector with business office at 2406 - 555 W. Hastings St., Vancouver, B.C. V6B 4N5.
2. That I have worked within the mining exploration industry for the past 27 years.
3. That the information contained herein is based on field work on the subject property and a review of relevant literature.

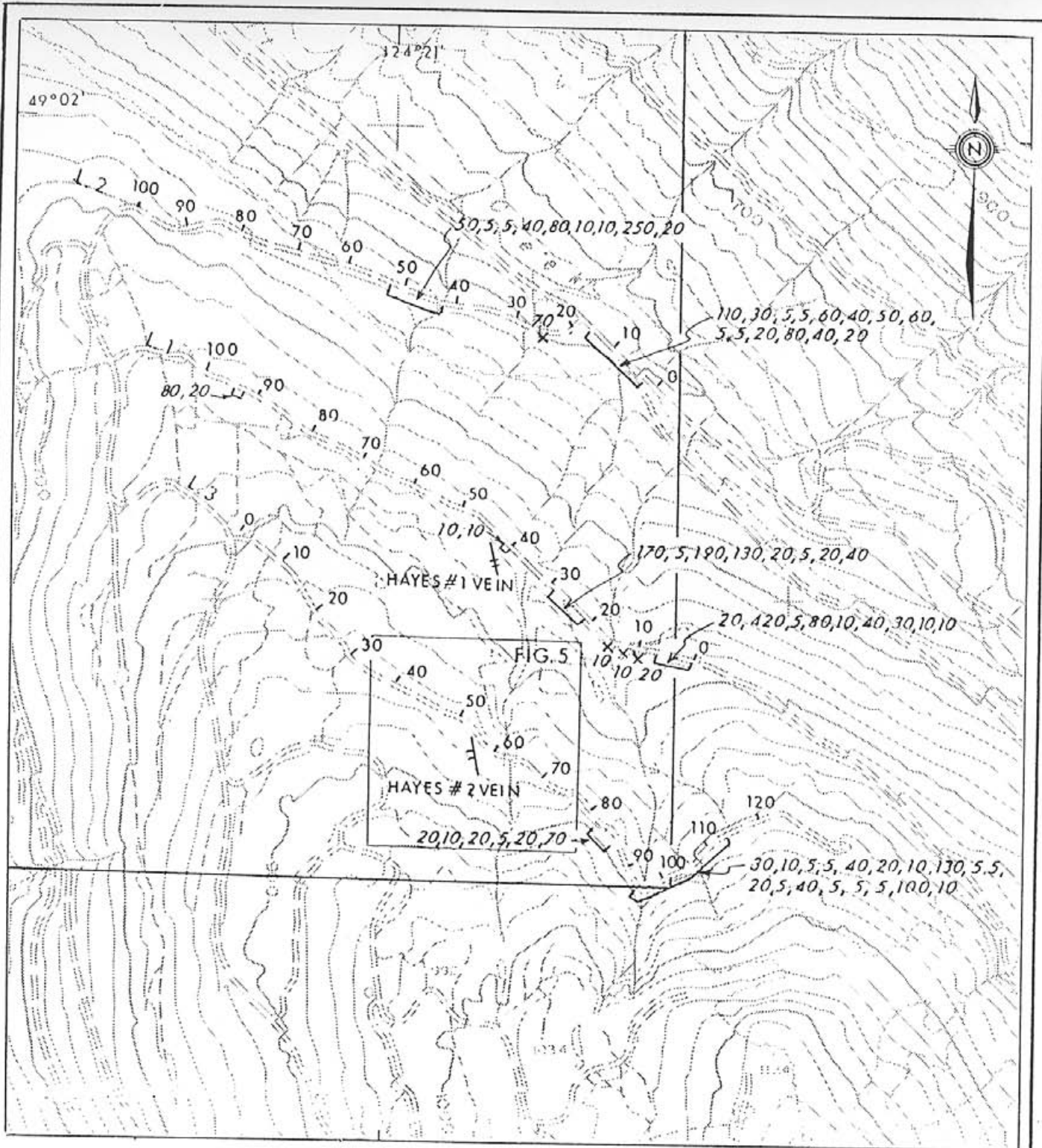
E. W. Hayes

Vancouver, B.C.  
Sept. 26, 1991

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**LEGEND**

- 90 Soil sample station
- x Single station > 5ppb Au
- ┌ Zone of mainly > 5ppb Au
- 30, 10 Results Au (ppb)
- Unless otherwise identified, all samples = 5ppb Au*
- └ Property boundary

0 100 200 300 400m

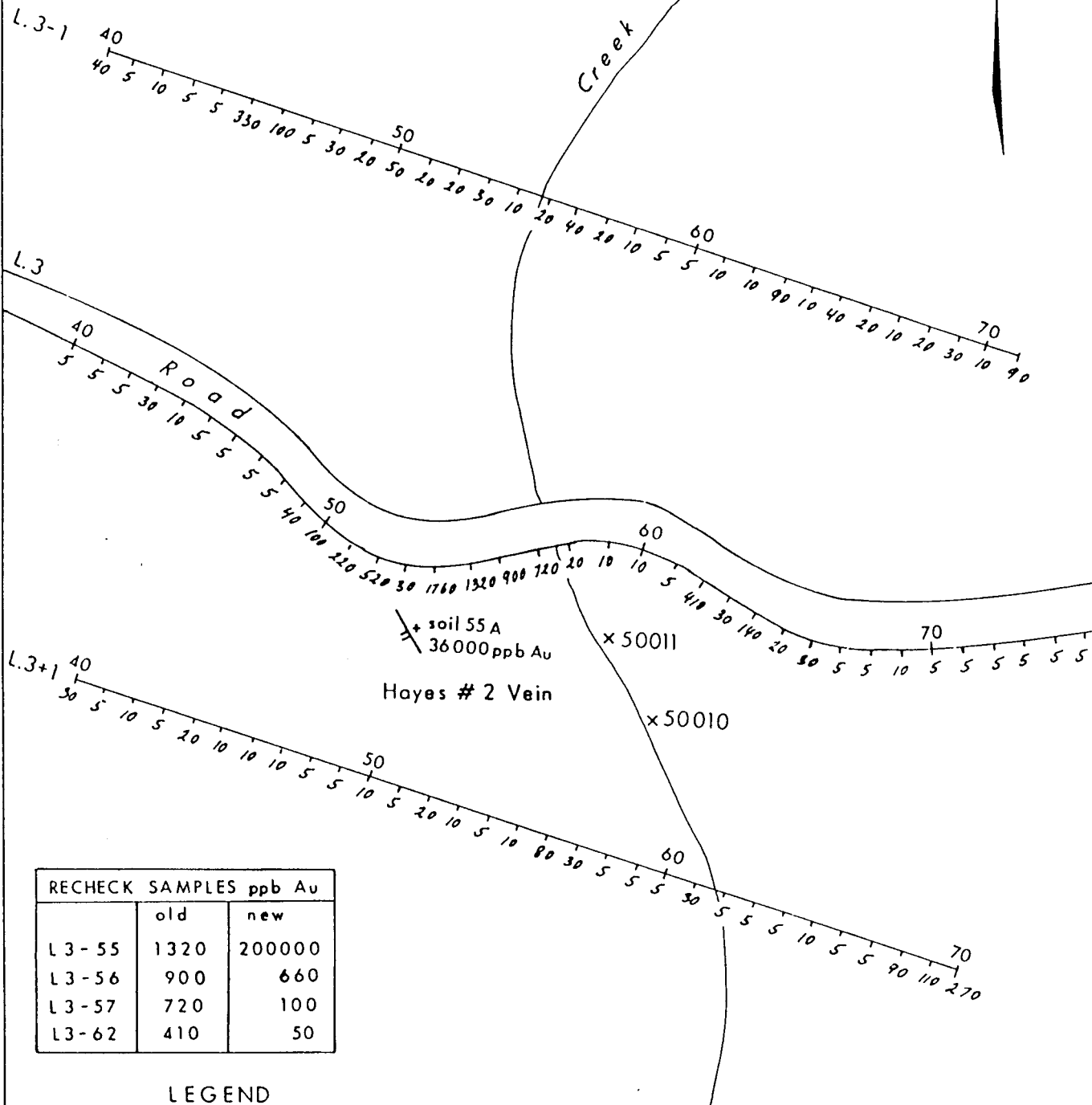
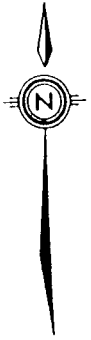
GOLDBANK VENTURES LTD.

GREEN GROUP  
NANAIMO M.D.

SOIL SAMPLING, Au VALUES

Project No.	By: T. N., T. H.
Scale: 1:10 000	Drawn: J. S.
Drawing No: 4	Date: JUNE 1991.

 **CME** CME Consulting Ltd.



RECHECK SAMPLES	ppb Au	
	old	new
L3-55	1320	200000
L3-56	900	660
L3-57	720	100
L3-62	410	50

**LEGEND**

- 40 ——— Soil sample station
- 30 ——— Au (ppb)
- x ——— Rock sample

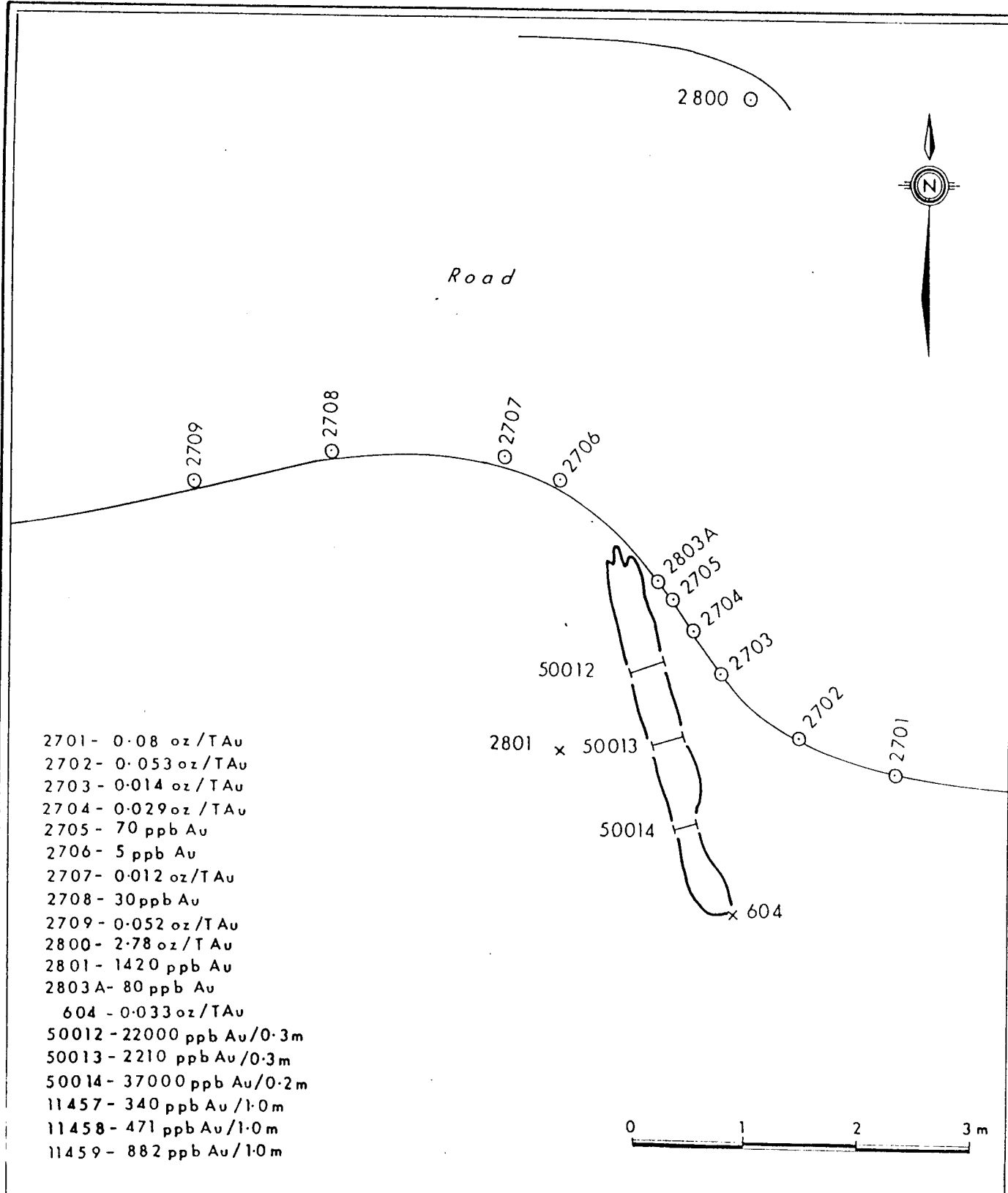
**GOLDBANK VENTURES LTD.**

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**GREEN GROUP  
DETAILED SOIL SAMPLING  
HAYES # 2 AREA**





Project No	By
Scale 1 : 2 000	Drawn J.S.
Drawing No 5	Date JUNE 1991.


**CME** CME Consulting Ltd.



- 2701 - 0.08 oz / T Au
- 2702 - 0.053 oz / T Au
- 2703 - 0.014 oz / T Au
- 2704 - 0.029 oz / T Au
- 2705 - 70 ppb Au
- 2706 - 5 ppb Au
- 2707 - 0.012 oz / T Au
- 2708 - 30 ppb Au
- 2709 - 0.052 oz / T Au
- 2800 - 2.78 oz / T Au
- 2801 - 1420 ppb Au
- 2803A - 80 ppb Au
- 604 - 0.033 oz / T Au
- 50012 - 22000 ppb Au / 0.3m
- 50013 - 2210 ppb Au / 0.3m
- 50014 - 37000 ppb Au / 0.2m
- 11457 - 340 ppb Au / 1.0m
- 11458 - 471 ppb Au / 1.0m
- 11459 - 882 ppb Au / 1.0m

**LEGEND**

-  Vein
-  Chip sample
-  Grab sample
-  Float sample

GOLDBANK VENTURES LTD.	
GREEN GROUP HAYES # 1 VEIN	
Project No:	By:
Scale: 1 : 50	Drawn: J.S.
Drawing No: 6	Date: JUNE 1991.
 <b>CME</b> CME Consulting Ltd.	

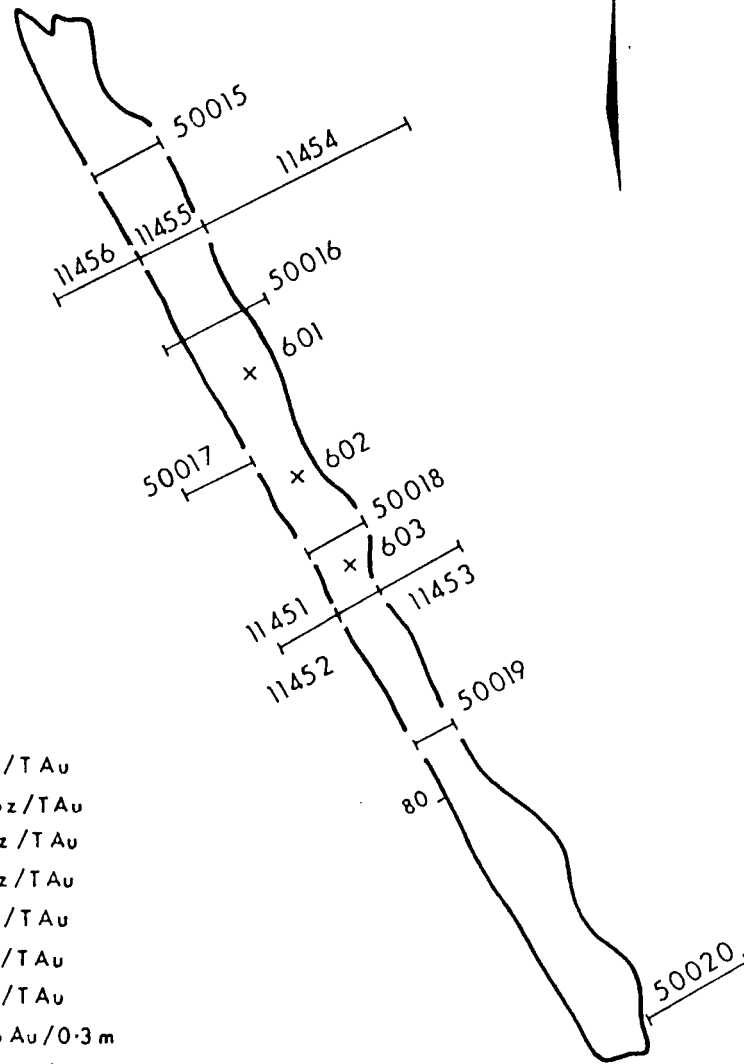
x 1900

x 1902

1903 x



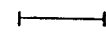
x 600



LEGEND



Vein

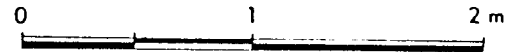


Chip sample



Grab sample

- 1900 - 0.02 oz/T Au
- 1902 - 0.038 oz/T Au
- 1903 - 0.018 oz/T Au
- 600 - 0.001 oz/T Au
- 601 - 3.85 oz/T Au
- 602 - 4.68 oz/T Au
- 603 - 1.32 oz/T Au
- 50015 - 315 ppb Au/0.3 m
- 50016 - 116 ppb Au/0.5 m
- 50017 - 107 ppb Au/0.3 m
- 50018 - 12000 ppb Au/0.3 m
- 50019 - 1275 ppb Au/0.2 m
- 50020 - 172 ppb Au/0.5 m
- 11451 - 190 ppb Au/0.3 m
- 11452 - 1.508 oz/T Au/0.2 m
- 11453 - 510 ppb Au/0.4 m
- 11454 - 72 ppb Au/1.0 m
- 11455 - 0.413 oz/T Au/0.3 m
- 11456 - 101 ppb Au/0.4 m



GOLDBANK VENTURES LTD.

GREEN GROUP  
HAYES # 2 VEIN

Project No	By
Scale 1:33.3	Drawn J.S.
Drawing No 7	Date JUNE 1991.

 **CME** CME Consulting Ltd.

APPENDIX A

**List of Personnel and Statement of Expenditures**



**LIST OF PERSONNEL AND STATEMENT OF EXPENDITURES**

**Personnel:**

T.G. Hawkins, PGeol.	3 days @ \$500	\$1,500	
H.K. Hoiles, PGeol.	3 days @ 500	1,500	
T. Hayes, Prospector	12 days @ 200	<u>2,400</u>	
			\$ 5,400

**Disbursements:**

Room and board	18 mandays @ 60	1,080	
Truck	15 days @ 90	1,350	
Ferry	10 @ 24.25	242.50	
Field supplies		<u>187.50</u>	
			2,860

**Samples:**

Soils		5,880	
Rocks		1,245	
Silts		<u>384</u>	
			7,509

**Report Preparation:**

Typing			<u>90</u>
		Total	<u>\$15,859</u>

APPENDIX B

**Certificates of Analysis**

ROSSBACHER LABORATORY LTD.

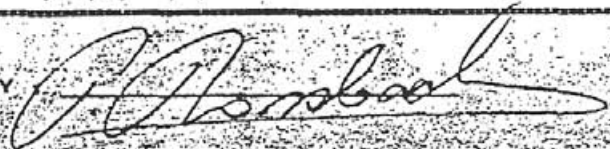
2225 S. Springer Ave., Burnaby  
 British Columbia, Can. V5B 5B1  
 Ph: (604)299-6918 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
 #2406-555 W. HASTINGS ST.  
 VANCOUVER, B.C.  
 PROJECT : V 99 GREEN  
 TYPE OF ANALYSIS : ICP

CERTIFICATE # : 901171  
 INVOICE # : 10227  
 DATE ENTERED : 90-01-25  
 FILE NAME : MPH90117.A  
 PAGE # : 1

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L	SILT#1 HEAVY	7	258	61	307	1.9	48	88	2560	17.35	56	5	ND	ND	182	5	4	3	180	1.42	0.28	44	476	0.78	153	0.14	544	2.43	0.01	0.05	1	6	400	
L	SILT#1 FLOAT	1	53	15	129	0.4	16	29	881	3.66	8	5	ND	ND	43	1	2	2	59	0.56	0.11	15	84	1.06	108	0.05	48	2.03	0.01	0.05	1	2		

CERTIFIED BY 

ROSSBACHER LABORATORY LTD.

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British Columbia, Can. V5B 3M1  
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

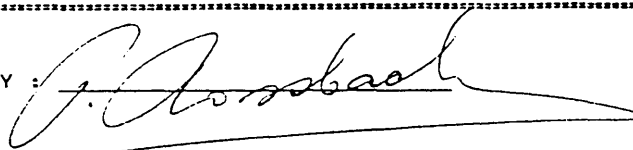
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VANCOUVER, B.C.

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DATE ENTERED : 90-04-20  
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PROJECT : V302 ~~SON~~ SILTS *GREEN CREEK*  
TYPE OF ANALYSIS : ICP

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	SILT 90-1 HEAVY	2	61	15	44	0.3	18	17	556	6.21	18	5	ND	ND	178	1	2	2	142	1.15	0.03	40	97	0.83	56	0.33	18	1.79	0.02	0.01	1	5
	SILT 90-2 HEAVY	3	56	26	41	0.4	20	14	534	6.04	24	5	ND	ND	188	1	2	2	142	1.17	0.02	28	86	0.79	59	0.35	10	1.88	0.02	0.01	6	5
	SILT 90-3 HEAVY	3	65	10	43	0.1	18	16	584	6.97	21	5	ND	ND	166	1	2	2	157	1.04	0.01	27	72	0.81	66	0.35	9	1.88	0.02	0.01	6	5
	SILT 90-4 HEAVY	1	35	7	32	0.1	17	14	418	3.19	12	5	ND	ND	194	1	2	2	92	1.09	0.02	19	31	0.98	32	0.30	10	1.95	0.02	0.01	6	3
	SILT 90-5 HEAVY	2	65	15	42	0.3	16	12	786	7.77	23	5	ND	ND	211	1	2	2	165	1.09	0.02	37	30	0.83	98	0.36	27	1.82	0.02	0.01	8	5
	SILT 90-5A HEAVY	1	69	7	47	0.3	16	11	805	6.83	20	5	ND	ND	213	1	3	2	150	1.10	0.02	35	9	0.95	82	0.33	19	1.98	0.02	0.01	9	5
	SILT 90-6 HEAVY	2	57	8	48	0.2	17	17	811	6.54	17	5	ND	ND	192	1	2	2	149	1.08	0.03	27	6	1.15	57	0.36	5	2.18	0.02	0.01	7	5
	SILT 90-6A HEAVY	1	66	11	49	0.5	17	19	857	7.40	21	5	ND	ND	200	2	3	2	169	1.14	0.02	31	9	1.16	77	0.38	5	2.23	0.02	0.01	8	6
	SILT 90-1 FLOAT	1	54	5	54	0.1	20	10	719	2.82	10	5	ND	ND	84	1	2	2	72	0.75	0.03	20	9	1.36	99	0.26	5	2.63	0.02	0.01	5	3
	SILT 90-2 FLOAT	2	68	11	62	0.1	23	10	944	3.29	10	5	ND	ND	79	1	2	2	75	0.75	0.03	28	8	1.33	180	0.21	5	3.17	0.02	0.01	5	3
	SILT 90-3 FLOAT	2	59	7	60	0.1	20	10	778	3.01	9	5	ND	ND	61	1	3	2	68	0.60	0.03	18	11	1.22	144	0.18	9	2.88	0.02	0.02	1	3
	SILT 90-4 FLOAT	1	46	3	58	0.1	21	11	667	2.65	9	5	ND	ND	71	1	4	2	62	0.71	0.02	15	12	1.43	89	0.21	14	2.51	0.02	0.01	1	3
	SILT 90-5 FLOAT	2	64	8	68	0.3	20	11	1233	3.04	12	5	ND	ND	68	1	2	2	69	0.68	0.03	19	18	1.36	169	0.16	11	2.86	0.02	0.02	3	3
	SILT 90-5A FLOA	1	59	2	66	0.3	20	11	1108	2.99	9	5	ND	ND	58	1	4	2	66	0.61	0.04	16	12	1.45	155	0.15	8	2.76	0.02	0.02	3	3
	SILT 90-6 FLOAT	2	61	3	62	0.3	17	11	1065	3.07	9	5	ND	ND	60	1	3	2	71	0.60	0.03	17	11	1.53	110	0.21	5	2.83	0.02	0.01	2	3
	SILT 90-6A FLOA	1	65	7	60	0.3	18	12	1108	3.10	12	5	ND	ND	59	1	2	2	73	0.59	0.03	18	10	1.51	112	0.22	5	2.83	0.02	0.01	4	3

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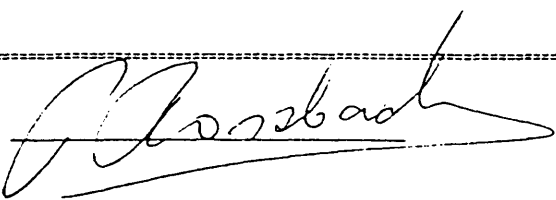
2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3M1  
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : 99 GREEN  
TYPE OF ANALYSIS : ICP

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RECEIVED AUG 7 - 1990

ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : CME CONSULTING LTD.  
#2405-555 WEST HASTINGS STREET  
VANCOUVER, B.C.  
PROJECT : TED HAYES  
TYPE OF ANALYSIS : ICP

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2600	2	58	4	27	0.3	11	7	434	0.97	8	5	ND	ND	177	1	6	9	16	2.32	0.14	6	22	0.16	75	0.08	5	3.35	0.13	0.02	6	1	5	
2601	1	38	32	511	0.5	1	1	1900	2.39	291	5	ND	ND	450	1	2	2	6	21.93	0.02	11	28	0.79	10	0.01	15	0.11	0.02	0.01	1	1	10	

CERTIFIED BY: 

ROSSBACHER LABORATORY LTD.

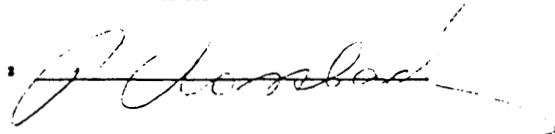
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Ph: (604)299-6910 Fax:299-6252

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#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : V 99 GOLD BANK  
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FIX	SAMPLE NAME	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	HG	SR	CD	SD	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	SI	W	DE	Am	AA
A	T 900 62803A	16	127	17	256	0.1	9	13	383	5.64	9	5	ND	ND	9	1	10	2	43	0.09	0.48	14	23	1.91	64	0.01	53	2.31	0.01	0.10	1	2	80	
A	T 900 62800	7	150	7	57	54.2	16	3	142	3.12	105	5	52	NB	4	1	4	50	10	0.02	0.06	1	153	0.04	30	0.01	5	0.26	0.01	0.05	2	1	ASSAY	

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British Columbia, Can. V5B 3B1  
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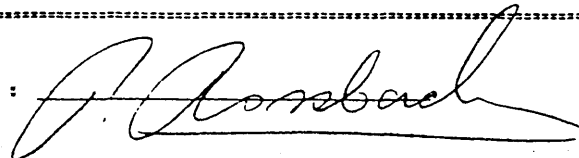
CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : GOLDBANK  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90248  
INVOICE # : 10364  
DATE ENTERED : 90-07-04  
FILE NAME : MPH90248.I  
PAGE # : 6

PRE FIX	SAMPLE NAME	PPM NO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM MN	PPM FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	PPM CA	PPM P	PPM LA	PPM CR	PPM MG	PPM BA	PPM TI	PPM B	PPM AL	PPM NA	PPM SI	PPM W	PPM BE	PPM Au	PPM AA
S	L-2 100	1	96	2	75	0.2	11	11	594	3.16	3	5	ND	ND	58	1	2	2	83	0.39	0.25	17	25	1.02	127	0.24	5	2.45	0.01	0.02	1	3	5	
T	9006 2401	1	42	2	62	0.2	114	12	2280	4.31	14	5	ND	ND	56	1	2	2	120	0.97	0.12	9	78	1.42	114	0.30	572	2.23	0.01	0.04	1	4	30	
T	9006 2402	2	568	6	37	3.4	17	3	352	0.38	257	5	ND	ND	9	2	74	63	6	0.01	0.01	2	52	0.01	54	0.01	5	0.05	0.01	0.05	1	1	5	
T	9006 2403	3	39	11	93	0.2	4	10	525	2.98	6	5	ND	ND	28	2	2	2	20	0.89	0.21	29	22	1.43	121	0.01	1114	1.46	0.01	0.05	1	1	5	
T	9006 2701	5	422	1	70	5.5	8	86	629	7.72	166	5	ND	ND	30	1	2	11	15	1.71	0.13	1	39	0.34	33	0.01	3020	0.69	0.01	0.07	1	1	2040	
T	9006 2702	22	155	9	24	0.7	7	22	1042	2.66	37	5	ND	ND	174	1	2	2	15	6.75	0.15	3	38	0.40	91	0.01	841	0.49	0.01	0.07	1	1	1320	
T	9006 2703	2	108	7	62	0.3	10	12	1456	3.43	59	5	ND	ND	62	1	2	5	19	3.65	0.16	2	35	1.19	35	0.01	656	0.30	0.01	0.05	1	1	350	
T	9006 2704	1	1310	1	176	3.5	8	14	5039	6.80	2	5	ND	ND	161	3	2	2	23	13.72	0.17	5	24	3.32	38	0.01	356	0.70	0.01	0.08	1	1	710	
T	9006 2705	1	54	1	115	0.6	16	39	931	9.21	49	5	ND	ND	10	1	2	2	99	0.35	0.17	3	39	2.19	47	0.01	1573	3.18	0.01	0.11	1	4	70	
T	9006 2706	5	51	13	106	0.2	8	12	3144	3.81	8	5	ND	ND	20	1	2	2	22	0.41	0.17	35	21	0.15	319	0.01	13	0.73	0.01	0.09	1	2	5	
T	9006 2707	2	100	4	3033	1.4	8	12	6008	6.69	86	5	ND	ND	267	46	2	2	8	14.79	0.13	7	28	4.23	64	0.01	1347	0.17	0.01	0.06	1	1	380	
T	9006 2708	2	46	9	72	0.2	10	26	1071	4.00	96	5	ND	ND	91	1	2	4	11	4.81	0.13	4	28	0.64	82	0.01	1000	0.28	0.01	0.06	1	1	30	
T	9006 2709	1	22	1	22	0.1	1	3	662	1.53	6	5	ND	ND	31	1	2	2	9	2.54	0.22	18	15	0.36	51	0.01	5	0.72	0.01	0.06	1	1	5	
T	9006 2801	1	12	1	37	1.3	7	59	70	5.43	50	5	ND	ND	4	1	2	2	10	0.10	0.08	1	25	0.24	26	0.01	1468	0.69	0.01	0.05	1	1	1420	

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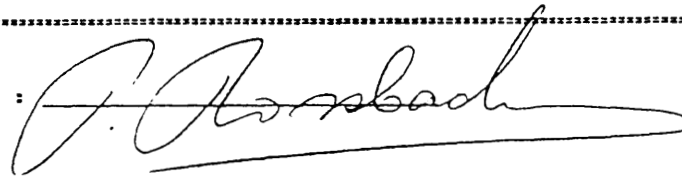
CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : GOLDBANK  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90248B  
INVOICE # : 10374  
DATE ENTERED : 90-07-10  
FILE NAME : MPH90248.B  
PAGE # : 1

PRE	FII	SAMPLE NAME	PPM NO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CD	PPM MN	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I NA	I SI	PPM W	PPM BE	PPB Au	PPB AA
F		90062802 FLOAT	1	44	24	86	0.1	31	5	1407	3.22	19	5	ND	ND	43	1	2	2	56	0.50	0.322	28	10	0.81	172	0.11	5	1.92	0.01	0.01	2	4		
F		90062803 FLOAT	1	56	18	88	0.1	29	7	1171	3.35	15	5	ND	ND	29	1	2	2	47	0.49	0.296	25	12	1.05	135	0.07	5	2.06	0.01	0.01	2	3		
F		90062804 FLOAT	1	50	22	99	0.1	29	8	1454	3.34	23	5	ND	ND	46	1	2	2	57	0.56	0.278	28	11	0.86	165	0.11	5	2.11	0.01	0.01	2	4		
HM		90062802 HEAVY	1	57	21	71	0.2	44	23	2061	13.29	39	5	ND	ND	65	1	2	2	199	0.86	0.583	35	14	0.43	140	0.12	5	0.90	0.01	0.01	2	9	30	
HM		90062803 HEAVY	1	124	35	78	0.2	44	41	816	14.61	25	5	ND	ND	49	1	2	2	305	0.71	0.470	28	8	0.61	90	0.26	20	1.11	0.01	0.01	2	13	40	
HM		90060804 HEAVY	1	121	24	91	0.2	45	32	2131	14.52	29	5	ND	ND	56	1	2	2	262	0.79	0.521	32	11	0.52	113	0.18	5	1.02	0.01	0.01	2	8	5	

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CERTIFICATE OF ANALYSIS

TO : TED HAYES  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : TED  
TYPE OF ANALYSIS : ICF

CERTIFICATE # : 90580  
INVOICE # : 20128  
DATE ENTERED : 90-11-28  
FILE NAME : MPH90580.I  
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM MN	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I NA	I SI	PPM W	PPM BE	PPM Au	PPB AA
A	9T 112000	1	25	2	86	0.6	16	16	1383	4.68	2	5	ND	ND	124	1	2	2	17	6.81	0.04	14	97	1.92	23	0.01	5	0.21	0.01	0.02	1	1	5	
A	9T 112001	1	65	5	70	1.4	19	18	882	3.81	2	5	ND	ND	108	1	5	2	28	4.84	0.10	14	47	1.51	30	0.01	5	0.49	0.01	0.02	1	1	5	
L	9T 112002	2	74	2	311	2.7	64	73	4896	16.59	2	5	ND	ND	31	4	2	2	79	0.47	0.11	46	89	0.36	185	0.01	5	1.29	0.01	0.02	1	3	30	
A	9T 112003	2	33	11	84	0.2	20	36	1673	6.65	18	5	ND	ND	6	1	6	2	28	0.09	0.03	12	68	0.11	93	0.01	5	0.72	0.01	0.02	1	1	5	
A	9T 112004	1	55	5	70	0.1	14	11	713	5.98	2	5	ND	ND	54	1	2	2	105	0.78	0.06	14	53	1.31	48	0.33	5	2.75	0.01	0.02	1	2	5	
A	9T 112005	2	64	9	78	0.2	22	12	619	5.71	4	5	ND	ND	44	1	2	2	107	0.55	0.09	12	52	1.35	93	0.34	10	3.02	0.01	0.01	1	2	5	
A	9T 112006	1	77	2	91	0.1	38	14	806	5.63	8	5	ND	ND	45	1	2	2	108	0.67	0.06	12	89	1.89	378	0.32	20	3.15	0.01	0.02	1	2	5	
A	9T 112007	2	64	1	70	0.2	21	5	636	6.13	17	5	ND	ND	36	1	2	2	109	0.57	0.04	9	67	1.80	247	0.40	15	2.93	0.01	0.04	1	2	5	
A	9T 112008	7	122	18	34	0.3	31	48	83	6.69	10	5	ND	ND	39	1	2	2	32	0.74	0.25	16	6	0.15	67	0.32	5	0.99	0.01	0.09	1	1	5	
A	9T 112009	1	49	2	81	0.2	35	11	687	4.34	6	5	ND	ND	53	1	2	2	105	1.43	0.10	8	80	1.53	455	0.27	5	2.38	0.01	0.05	1	2	5	
A	9T 112010	1	55	1	103	0.3	31	29	1298	6.24	4	5	ND	ND	64	1	2	2	114	1.74	0.12	24	73	2.49	104	0.01	10	2.63	0.01	0.01	3	3	5	
MM	9T 112100	1	84	13	77	0.3	36	28	868	4.16	9	5	ND	ND	55	1	3	2	91	0.72	0.08	16	50	1.28	81	0.18	5	2.59	0.01	0.01	7	2	5	
MM	9T 112101	1	76	3	78	0.1	42	31	855	4.62	9	5	ND	ND	48	1	3	2	98	0.49	0.05	14	53	1.16	82	0.15	5	2.55	0.01	0.01	6	2	5	
A	9T 112102	2	57	13	14	0.3	11	10	190	0.89	11	5	ND	ND	123	1	5	2	60	2.95	0.11	8	32	0.13	27	0.25	10	2.37	0.01	0.03	7	2	5	

CERTIFIED BY :

*J. Rossbach*

RECEIVED DEC 3 1990

ROSSBACHER LABORATORY LTD.

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CERTIFICATE OF ANALYSIS

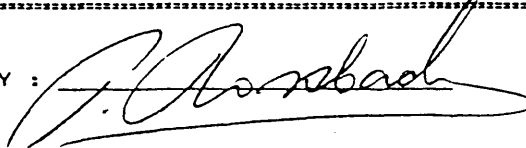
TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.

PROJECT : GOLDBANK  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90248  
INVOICE # : 10364  
DATE ENTERED : 90-07-04  
FILE NAME : MPH90248.I  
PAGE # : 1

PRE FIX	SAMPLE NAME	PPH NO	PPH CU	PPH PB	PPH ZN	PPH AG	PPH NI	PPH CO	PPH MN	I FE	PPH AS	PPH U	PPH AU	PPH HG	PPH SR	PPH CD	PPH SB	PPH BI	PPH V	I CA	I P	PPH LA	PPH CR	I MG	PPH BA	I TI	PPH B	I AL	I NA	I SI	PPH W	PPH BE	PPH Au	PPH AA
S	L-1 00	1	50	2	51	0.1	15	6	606	3.55	3	5	ND	ND	47	1	2	2	79	0.34	0.16	19	46	1.26	25	0.23	5	2.92	0.01	0.07	1	4	20	
S	L-1 01	1	29	1	53	0.1	7	3	478	3.42	2	5	ND	ND	37	1	2	2	91	0.19	0.16	10	35	0.57	50	0.18	5	4.36	0.01	0.07	1	4	420	
S	L-1 02	1	49	1	45	0.1	10	8	606	4.37	2	5	ND	ND	32	1	2	2	92	0.19	0.32	12	52	1.02	41	0.22	5	5.89	0.01	0.08	1	4	5	
S	L-1 03	1	42	1	43	0.1	8	9	386	3.94	2	5	ND	ND	36	1	2	2	105	0.16	0.22	12	39	0.70	55	0.24	5	4.98	0.01	0.09	1	5	80	
S	L-1 04	1	98	3	61	0.3	16	10	807	3.61	4	5	ND	ND	64	1	2	2	96	0.62	0.15	13	53	1.84	86	0.20	5	3.40	0.01	0.03	1	4	10	
S	L-1 05	1	108	1	53	0.7	21	16	1055	3.74	10	5	ND	ND	55	1	2	2	95	0.55	0.15	26	57	1.57	94	0.22	5	5.66	0.01	0.11	1	5	40	
S	L-1 06	1	66	3	49	0.8	12	15	850	3.42	10	5	ND	ND	90	1	2	2	96	0.84	0.16	17	39	1.57	63	0.23	5	2.81	0.01	0.04	1	4	30	
S	L-1 07	1	113	1	63	0.5	15	12	1014	3.75	11	5	ND	ND	86	1	2	2	95	0.76	0.16	18	45	1.98	66	0.25	5	3.57	0.01	0.05	1	5	10	
S	L-1 08	1	107	2	59	0.5	15	14	971	3.84	9	5	ND	ND	100	1	2	2	101	0.69	0.15	17	43	2.15	93	0.27	5	3.68	0.01	0.05	1	5	10	
S	L-1 09	1	53	1	99	0.4	19	13	782	4.03	4	5	ND	ND	74	1	2	2	99	0.58	0.10	15	45	1.59	134	0.22	5	3.91	0.01	0.04	1	5	5	
S	L-1 10	1	47	2	57	0.1	14	25	723	3.22	4	5	ND	ND	67	1	2	4	84	0.63	0.11	18	38	1.19	114	0.24	5	2.61	0.01	0.03	1	4	10	
S	L-1 11	1	55	6	60	0.3	16	26	815	3.30	8	5	ND	ND	80	1	2	2	82	0.83	0.16	23	42	1.54	89	0.25	5	2.83	0.01	0.04	1	4	5	
S	L-1 12	1	58	1	69	0.3	21	12	734	3.81	6	5	ND	ND	63	1	2	2	89	0.58	0.09	26	49	1.36	166	0.22	5	3.99	0.01	0.04	1	5	5	
S	L-1 13	1	66	1	83	0.1	23	13	835	3.87	2	5	ND	ND	58	1	2	2	102	0.40	0.07	22	49	1.40	183	0.25	5	4.93	0.01	0.04	1	5	20	
S	L-1 14	1	62	4	66	0.1	16	13	681	3.56	5	5	ND	ND	60	1	2	2	95	0.40	0.12	17	39	1.18	66	0.28	5	4.09	0.01	0.05	1	4	5	
S	L-1 15	1	68	2	72	0.3	18	9	931	3.53	7	5	ND	ND	65	1	2	2	92	0.51	0.12	19	36	1.17	83	0.24	5	4.03	0.01	0.08	1	4	10	
S	L-1 16	1	87	3	68	0.4	20	13	1339	3.40	12	5	ND	ND	74	1	2	2	88	0.67	0.14	24	39	1.41	119	0.24	5	4.27	0.01	0.09	1	5	5	
S	L-1 17	1	62	1	80	0.1	12	9	572	3.80	2	5	ND	ND	59	1	2	2	107	0.26	0.06	18	32	0.89	79	0.26	5	4.55	0.01	0.06	1	5	5	
S	L-1 18	1	43	1	46	0.1	10	11	431	3.99	4	5	ND	ND	48	1	2	2	104	0.26	0.14	14	32	0.84	45	0.29	5	4.76	0.01	0.14	1	4	5	
S	L-1 19	1	56	3	52	0.1	11	10	540	3.34	6	5	ND	ND	50	1	2	2	95	0.33	0.11	16	27	0.85	57	0.24	5	4.44	0.01	0.11	1	4	5	
S	L-1 20	1	41	1	45	0.1	8	10	550	3.44	4	5	ND	ND	49	1	2	4	100	0.30	0.13	13	29	0.75	50	0.24	5	3.49	0.01	0.07	1	4	5	
S	L-1 21	1	68	1	84	0.1	12	10	381	4.40	6	5	ND	ND	31	1	2	2	107	0.21	0.16	13	38	1.02	62	0.11	5	5.21	0.01	0.05	1	5	170	
S	L-1 22	2	79	1	38	0.1	8	13	245	3.88	4	5	ND	ND	15	1	5	2	100	0.11	0.32	24	32	0.49	43	0.11	12	9.34	0.01	0.03	2	5	5	
S	L-1 23	1	148	1	67	0.1	17	13	437	4.24	2	5	ND	ND	36	1	2	2	109	0.15	0.11	11	38	1.17	90	0.11	5	6.66	0.01	0.07	1	5	190	
S	L-1 24	1	98	2	69	0.1	11	9	643	4.12	5	5	ND	ND	41	1	2	2	109	0.25	0.14	12	32	1.13	90	0.07	5	5.12	0.01	0.07	1	5	130	
S	L-1 25	1	57	1	64	0.1	13	14	587	3.56	3	5	ND	ND	53	1	2	2	92	0.36	0.11	14	28	1.12	85	0.20	5	3.67	0.01	0.04	1	4	20	
S	L-1 26	1	58	6	87	0.1	16	12	1086	3.87	8	5	ND	ND	61	1	2	2	85	0.56	0.15	16	32	1.31	122	0.17	5	4.13	0.01	0.03	1	5	5	
S	L-1 27	1	52	1	60	0.1	17	13	404	3.80	2	5	ND	ND	50	1	2	2	100	0.24	0.05	14	29	0.90	98	0.13	5	3.75	0.01	0.04	1	5	5	
S	L-1 28	1	71	4	74	0.1	18	15	782	4.31	10	5	ND	ND	37	1	2	2	79	0.35	0.08	14	28	1.04	110	0.09	5	3.51	0.01	0.03	1	4	140	
S	L-1 29	2	82	4	63	0.3	19	20	783	4.05	8	5	ND	ND	59	1	2	4	95	0.52	0.06	16	32	1.35	106	0.18	5	3.47	0.01	0.04	1	5	160	
S	L-1 30	1	41	4	61	0.1	11	13	619	3.40	9	5	ND	ND	63	1	2	3	65	0.50	0.06	13	25	1.14	94	0.08	5	2.73	0.01	0.02	1	4	5	
S	L-1 31	2	64	4	62	0.1	17	6	802	3.94	7	5	ND	ND	58	1	2	2	95	0.58	0.10	16	38	1.20	125	0.13	5	4.07	0.01	0.03	1	5	20	
S	L-1 32	2	68	6	109	0.1	23	5	930	3.91	5	5	ND	ND	64	1	2	2	96	0.62	0.06	14	41	1.47	120	0.20	5	3.75	0.01	0.02	1	5	40	
S	L-1 33	1	76	1	105	0.2	25	8	1080	4.45	7	5	ND	ND	59	1	2	2	117	0.60	0.08	13	49	1.83	147	0.23	5	4.80	0.01	0.02	1	6	5	
S	L-1 34	1	65	1	107	0.6	28	24	715	5.77	7	5	ND	ND	41	1	7	2	235	0.52	0.06	7	73	4.24	70	0.38	5	7.26	0.02	0.02	2	10	5	
S	L-1 35	2	40	2	87	0.1	15	9	569	3.97	2	5	ND	ND	58	1	2	2	113	0.45	0.06	10	28	1.22	32	0.23	5	3.29	0.01	0.02	1	5	5	
S	L-1 36	1	44	3	80	0.1	17	17	714	3.75	6	5	ND	ND	58	1	2	2	91	0.54	0.09	12	27	1.24	92	0.21	5	2.64	0.01	0.02	1	4	5	
S	L-1 37	1	44	4	71	0.1	19	6	803	4.24	8	5	ND	ND	61	1	2	2	113	0.56	0.06	11	32	1.40	94	0.24	5	3.35	0.01	0.02	1	5	5	
S	L-1 38	2	117	4	68	0.2	56	17	2615	4.45	15	5	ND	ND	43	1	2	2	119	1.13	0.11	12	85	2.11	59	0.26	5	3.50	0.01	0.05	1	5	5	
S	L-1 39	2	40	3	78	0.1	13	18	758	2.97	2	5	ND	ND	49	1	2	5	84	0.47	0.06	11	24	0.78	76	0.16	5	2.63	0.01	0.03	1	4	5	

CERTIFIED BY :



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ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3J1  
Ph: (604)299-6910 Fax: 299-6252

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : GOLDBANK  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90248  
INVOICE # : 10364  
DATE ENTERED : 90-07-04  
FILE NAME : MPH90248.I  
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM NO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CD	PPM MN	I FE	PPM AS	PPM U	PPM AU	PPM Hg	PPM SR	PPM CD	PPM SB	PPM BI	I V	I CA	PPM P	PPM LA	I CR	I MG	I BA	I TI	PPM B	I AL	I NA	I SI	PPM W	PPM BE	PPM Au	PPB AA
S	L-1 40	2	66	3	64	0.1	15	16	796	3.31	7	5	ND	ND	60	1	2	3	84	0.66	0.14	21	28	1.32	53	0.22	5	2.63	0.01	0.04	1	4	10	
S	L-1 41	1	67	1	76	0.1	18	13	542	3.51	5	5	ND	ND	53	1	2	2	81	0.49	0.14	13	28	1.14	50	0.21	5	3.20	0.01	0.06	1	4	10	
S	L-1 42	1	62	1	80	0.1	13	9	507	3.85	3	5	ND	ND	41	1	2	2	100	0.28	0.16	13	25	0.97	64	0.18	5	4.53	0.01	0.10	1	5	5	
S	L-1 43	1	71	1	64	0.1	15	17	589	3.31	6	5	ND	ND	71	1	2	4	80	0.66	0.18	20	24	1.18	62	0.26	5	2.59	0.01	0.04	1	4	10	
S	L-1 44	2	108	1	92	0.3	23	13	626	3.74	6	5	ND	ND	62	1	3	2	93	0.49	0.11	19	34	1.35	114	0.22	5	4.94	0.01	0.06	1	5	5	
S	L-1 45	1	60	1	102	0.1	17	10	614	4.14	2	5	ND	ND	64	1	2	2	103	0.46	0.10	16	25	1.00	90	0.17	5	3.87	0.01	0.05	1	5	5	
S	L-1 46	2	52	5	85	0.1	14	14	746	4.43	6	5	ND	ND	55	1	7	2	105	0.46	0.10	17	24	0.98	86	0.19	5	3.87	0.01	0.04	1	5	5	
S	L-1 47	2	39	1	93	0.1	12	10	451	4.59	6	5	ND	ND	57	1	3	2	105	0.26	0.11	14	24	0.95	64	0.21	5	4.52	0.01	0.07	1	5	5	
S	L-1 48	5	49	2	99	0.2	12	16	1444	5.30	7	5	ND	ND	45	1	2	2	66	0.48	0.14	37	17	0.70	168	0.06	5	2.48	0.01	0.05	1	4	5	
S	L-1 49	3	16	4	149	0.1	4	11	1639	6.45	6	5	ND	ND	18	1	2	4	46	0.33	0.08	30	13	0.18	160	0.01	5	1.01	0.01	0.07	1	4	5	
S	L-1 50	2	60	1	64	0.1	17	17	755	3.74	8	5	ND	ND	58	1	2	2	81	0.60	0.13	19	27	1.15	72	0.17	5	2.62	0.01	0.04	1	4	5	
S	L-1 51	1	80	4	98	0.2	20	14	1271	3.84	8	5	ND	ND	90	1	2	2	89	0.79	0.18	26	35	1.59	195	0.21	5	3.23	0.01	0.04	1	5	5	
S	L-1 52	3	42	3	103	0.1	13	11	463	4.27	4	5	ND	ND	64	1	2	2	108	0.41	0.06	14	24	0.90	130	0.16	5	3.50	0.01	0.04	1	6	5	
S	L-1 53	4	50	1	83	0.4	16	11	713	4.13	8	5	ND	ND	54	1	2	2	97	0.51	0.10	28	22	0.65	149	0.11	5	4.69	0.01	0.06	1	6	5	
S	L-1 54	4	40	3	91	0.1	9	9	354	3.80	9	5	ND	ND	37	1	4	2	81	0.28	0.09	18	17	0.56	70	0.08	5	4.43	0.01	0.08	1	5	5	
S	L-1 55	2	44	4	112	0.1	11	9	486	4.43	3	5	ND	ND	42	1	2	2	94	0.32	0.10	18	22	0.83	95	0.06	5	4.26	0.01	0.04	1	5	5	
S	L-1 56	2	36	1	72	0.1	7	7	384	4.41	6	5	ND	ND	36	1	2	2	94	0.22	0.10	16	18	0.78	73	0.04	5	3.68	0.01	0.05	1	5	5	
S	L-1 57	3	40	13	87	0.2	12	9	721	3.94	6	5	ND	ND	47	1	2	2	79	0.40	0.09	26	18	0.80	118	0.06	5	3.53	0.01	0.07	1	5	5	
S	L-1 58	3	58	22	103	0.2	11	12	1258	4.77	10	5	ND	ND	42	1	2	2	68	0.44	0.15	33	20	0.90	134	0.07	5	3.10	0.01	0.07	1	5	5	
S	L-1 59	3	37	4	47	1.0	8	15	719	3.59	3	5	ND	ND	36	1	2	2	84	0.33	0.11	17	20	0.63	120	0.08	5	2.91	0.01	0.05	1	4	5	
S	L-1 60	6	103	2	85	0.1	12	15	1017	5.05	7	5	ND	ND	22	1	20	2	77	0.20	0.10	17	21	0.56	87	0.02	5	2.86	0.01	0.06	1	4	5	
S	L-1 61	2	21	1	45	0.1	5	17	525	3.16	2	5	ND	ND	44	1	2	2	93	0.26	0.08	13	17	0.53	48	0.09	5	2.68	0.01	0.03	1	4	5	
S	L-1 62	3	56	1	76	0.1	11	12	729	4.67	9	5	ND	ND	29	1	8	2	88	0.24	0.16	15	28	0.76	72	0.05	5	3.78	0.01	0.06	1	4	5	
S	L-1 63	2	60	1	70	0.1	16	16	649	3.99	9	5	ND	ND	53	1	9	2	100	0.39	0.06	14	32	1.16	85	0.12	5	3.63	0.01	0.04	1	5	5	
S	L-1 64	1	33	1	56	0.1	8	16	1650	3.11	6	5	ND	ND	60	1	2	2	80	0.46	0.06	21	18	0.71	134	0.10	5	3.04	0.01	0.04	1	4	5	
S	L-1 65	1	53	6	69	0.1	10	14	1379	4.11	6	5	ND	ND	45	1	2	2	96	0.44	0.11	19	24	0.78	127	0.12	5	3.89	0.01	0.04	1	6	5	
S	L-1 66	4	52	2	144	0.1	16	23	601	5.62	6	5	ND	ND	52	1	9	2	132	0.38	0.13	14	32	1.07	126	0.32	5	4.94	0.01	0.03	1	7	5	
S	L-1 67	3	42	6	69	1.0	16	10	575	4.56	10	5	ND	ND	57	1	6	2	103	0.36	0.10	12	29	1.08	82	0.17	5	4.43	0.01	0.06	1	5	5	
S	L-1 68	1	27	4	53	1.0	4	11	464	3.86	2	5	ND	ND	29	1	2	2	111	0.20	0.08	9	11	0.33	54	0.04	5	3.01	0.01	0.06	1	5	5	
S	L-1 69	2	23	10	46	0.8	9	11	412	3.63	4	5	ND	ND	42	1	2	2	92	0.22	0.12	11	22	0.56	38	0.17	5	3.29	0.01	0.05	1	4	5	
S	L-1 70	2	24	5	48	0.8	8	15	405	3.90	2	5	ND	ND	27	1	2	2	85	0.13	0.09	14	17	0.45	37	0.03	5	2.65	0.01	0.04	1	4	5	
S	L-1 71	4	67	14	69	0.8	18	17	398	3.98	9	5	ND	ND	40	1	2	2	95	0.19	0.10	16	29	0.98	86	0.11	5	3.90	0.01	0.07	1	5	5	
S	L-1 72	3	36	4	57	0.5	10	13	790	3.63	4	5	ND	ND	35	1	2	2	79	0.31	0.11	14	24	0.66	71	0.08	5	3.58	0.01	0.07	1	4	5	
S	L-1 73	2	38	15	45	0.4	9	12	934	3.59	3	5	ND	ND	35	1	2	2	95	0.38	0.11	12	21	0.66	63	0.06	5	3.28	0.01	0.07	1	4	5	
S	L-1 74	2	41	15	51	0.2	11	17	914	3.39	9	5	ND	ND	36	1	2	2	89	0.28	0.10	13	20	0.61	74	0.08	5	2.97	0.01	0.05	1	4	5	
S	L-1 75	3	25	19	105	0.2	12	23	768	3.62	8	5	ND	ND	59	1	4	2	94	0.43	0.07	15	21	0.62	62	0.17	5	2.61	0.01	0.03	1	4	5	
S	L-1 76	3	31	21	61	0.2	13	12	411	3.82	10	5	ND	ND	45	1	4	2	111	0.30	0.11	14	24	0.64	55	0.13	5	3.45	0.01	0.06	1	5	5	
S	L-1 77	2	36	13	64	0.3	14	11	355	4.49	4	5	ND	ND	49	1	2	2	127	0.26	0.10	12	28	0.79	68	0.19	5	4.18	0.01	0.06	1	6	5	
S	L-1 78	1	32	8	89	0.2	8	10	611	3.72	2	5	ND	ND	58	1	2	2	103	0.46	0.09	11	20	0.75	88	0.16	5	3.20	0.01	0.03	1	5	5	
S	L-1 79	1	45	4	63	0.3	12	13	1104	4.31	2	5	ND	ND	56	1	2	2	120	0.54	0.16	9	22	0.93	92	0.15	5	4.47	0.01	0.05	1	5	5	

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CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.

CERTIFICATE # : 90248  
INVOICE # : 10364  
DATE ENTERED : 90-07-04  
FILE NAME : MPH90248.I  
PAGE # : 3

PROJECT : GOLDBANK  
TYPE OF ANALYSIS : ICP

PRE FIX	SAMPLE NAME	PPH MO	PPH CU	PPH PB	PPH ZN	PPH AG	PPH NI	PPH CO	PPH Mn	PPH Fe	PPH AS	PPH U	PPH AU	PPH HG	PPH SR	PPH CD	PPH SB	PPH BI	PPH V	PPH CA	PPH P	PPH LA	PPH CR	PPH MG	PPH BA	PPH TI	PPH B	PPH AL	PPH MA	PPH SI	PPH W	PPH BE	PPH Au	PPH AA
S	L-1 80	1	57	5	71	0.2	8	13	1193	4.92	2	5	ND	ND	37	1	2	2	83	0.48	0.14	21	14	0.55	150	0.02	5	2.88	0.01	0.06	1	4	10	
S	L-1 81	1	33	7	60	0.2	5	14	358	3.91	2	5	ND	ND	28	1	2	2	96	0.16	0.06	13	13	0.41	53	0.02	5	2.90	0.01	0.04	1	4	5	
S	L-1 82	4	82	5	63	0.5	8	33	243	6.08	11	5	ND	ND	15	1	7	2	103	0.10	0.38	21	25	0.52	42	0.07	7	8.66	0.01	0.07	2	5	5	
S	L-1 83	1	93	6	103	0.2	21	20	1405	5.80	3	5	ND	ND	15	1	2	2	72	0.13	0.13	19	22	0.31	85	0.01	5	1.86	0.01	0.05	1	4	5	
S	L-1 84	1	75	4	69	0.2	24	12	456	4.54	4	5	ND	ND	25	1	2	2	119	0.19	0.06	6	57	1.61	86	0.04	5	3.92	0.01	0.04	1	5	5	
S	L-1 85	1	47	10	76	0.2	11	12	999	4.10	8	5	ND	ND	46	1	2	2	95	0.51	0.10	28	18	0.80	158	0.05	5	2.90	0.01	0.04	1	5	5	
S	L-1 86	9	117	7	263	0.3	22	22	2843	11.14	21	5	ND	ND	25	1	2	2	125	0.29	0.15	55	25	0.49	182	0.03	5	2.56	0.01	0.08	1	9	5	
S	L-1 87	7	83	5	172	0.2	15	12	1819	7.64	8	5	ND	ND	23	1	2	2	103	0.21	0.11	52	14	0.48	194	0.02	5	2.65	0.01	0.06	1	7	5	
S	L-1 88	2	79	4	69	0.1	11	12	697	4.64	15	5	ND	ND	33	1	2	2	84	0.24	0.14	32	20	0.91	71	0.04	5	3.97	0.01	0.09	1	5	5	
S	L-1 89	3	14	8	39	0.3	8	17	371	3.44	12	5	ND	ND	36	1	2	6	89	0.24	0.08	20	13	0.38	55	0.07	5	2.28	0.01	0.04	1	4	5	
S	L-1 90	3	41	7	70	0.3	18	16	869	4.08	8	5	ND	ND	43	1	9	2	105	0.28	0.18	15	24	0.91	62	0.16	5	4.35	0.01	0.08	2	5	5	
S	L-1 91	2	57	4	68	0.4	16	13	738	3.91	5	5	ND	ND	45	1	2	2	97	0.35	0.19	16	22	1.03	78	0.20	5	4.30	0.01	0.08	1	5	5	
S	L-1 92	4	31	9	61	0.2	15	13	420	3.72	10	5	ND	ND	38	1	4	2	102	0.24	0.08	14	20	0.81	67	0.15	5	3.63	0.01	0.04	1	5	5	
S	L-1 93	3	49	8	99	0.2	19	23	578	4.58	17	5	ND	ND	42	1	15	2	108	0.27	0.17	17	24	0.94	86	0.19	5	5.38	0.01	0.07	2	6	5	
S	L-1 94	3	36	6	69	0.2	15	17	854	3.37	8	5	ND	ND	39	1	2	2	77	0.34	0.15	16	17	0.70	83	0.11	5	3.22	0.01	0.06	1	4	80	
S	L-1 95	3	99	8	91	0.8	24	17	996	4.21	17	5	ND	ND	42	1	11	2	95	0.47	0.06	24	31	1.24	138	0.17	5	3.30	0.01	0.03	1	6	20	
S	L-1 96	3	57	8	70	0.8	33	27	1179	4.19	17	5	ND	ND	37	1	6	3	87	0.56	0.11	21	43	1.51	93	0.13	5	2.43	0.01	0.03	1	5	5	
S	L-1 97	3	61	9	82	0.2	23	18	1057	3.86	14	5	ND	ND	46	1	8	2	88	0.50	0.11	20	27	1.23	120	0.16	5	3.15	0.01	0.03	1	5	5	
S	L-1 98	2	54	7	66	0.2	20	21	702	3.85	9	5	ND	ND	51	1	2	2	92	0.53	0.14	16	27	1.15	81	0.21	5	3.00	0.01	0.05	1	4	5	
S	L-1 99	3	49	8	77	0.2	16	16	587	3.90	11	5	ND	ND	48	1	2	2	108	0.41	0.14	11	25	0.97	92	0.19	5	3.74	0.01	0.05	1	5	5	
S	L-1 100	2	66	10	100	0.2	17	15	909	4.21	11	5	ND	ND	37	1	2	2	104	0.30	0.15	16	24	0.97	108	0.15	5	4.32	0.01	0.05	1	5	5	
S	L-2 00	2	74	4	67	0.3	17	24	416	3.89	4	5	ND	ND	58	1	2	2	97	0.35	0.11	14	31	1.25	77	0.27	5	5.58	0.01	0.09	1	5	5	
S	L-2 01	3	67	1	67	0.2	9	29	303	5.45	11	5	ND	ND	40	1	2	2	128	0.23	0.38	12	31	0.93	48	0.31	8	6.94	0.01	0.16	2	6	5	
S	L-2 02	4	66	4	89	0.2	11	48	293	6.42	18	5	ND	ND	24	1	2	2	121	0.14	0.52	13	35	0.82	79	0.07	14	9.62	0.02	0.13	5	6	110	
S	L-2 03	6	54	3	72	0.2	6	39	149	6.16	17	5	ND	ND	20	1	2	2	121	0.10	0.35	14	27	0.45	49	0.09	23	8.76	0.01	0.16	6	6	30	
S	L-2 04	2	61	4	64	0.2	12	15	641	3.47	9	5	ND	ND	75	1	2	2	91	0.76	0.21	15	22	1.40	58	0.25	5	3.55	0.01	0.08	1	4	5	
S	L-2 05	4	80	1	70	0.2	11	34	781	4.49	19	5	ND	ND	37	1	2	2	84	0.39	0.30	20	21	0.94	109	0.08	5	7.09	0.01	0.20	4	5	60	
S	L-2 06	1	73	5	91	0.2	16	18	1491	3.77	14	5	ND	ND	68	1	2	2	86	0.81	0.15	18	22	1.49	144	0.16	5	3.30	0.01	0.09	1	5	40	
S	L-2 07	2	64	5	66	0.1	15	17	1629	3.37	8	5	ND	ND	49	1	2	2	77	0.47	0.12	14	22	1.07	142	0.07	5	3.17	0.01	0.06	1	4	50	
S	L-2 08	2	77	11	83	0.4	18	21	2384	3.68	13	5	ND	ND	61	1	4	2	92	0.20	0.15	22	28	1.28	211	0.10	5	3.64	0.02	0.05	1	5	60	
S	L-2 09	2	76	5	69	0.3	20	31	706	4.88	12	5	ND	ND	46	1	4	2	95	0.40	0.22	22	39	1.26	86	0.20	5	6.09	0.01	0.11	2	6	5	
S	L-2 10	2	39	13	64	0.3	11	17	674	3.79	9	5	ND	ND	60	1	2	2	102	0.49	0.10	16	21	0.79	101	0.17	5	3.44	0.01	0.05	1	5	5	
S	L-2 11	1	53	10	84	0.7	14	19	575	3.72	5	5	ND	ND	60	1	2	2	94	0.47	0.13	16	25	0.82	90	0.18	5	3.90	0.01	0.08	1	5	20	
S	L-2 12	4	63	12	100	0.6	20	31	1054	4.64	14	5	ND	ND	53	1	4	2	109	0.47	0.12	21	32	1.18	93	0.18	5	4.97	0.01	0.08	2	6	80	
S	L-2 13	2	52	13	121	0.5	18	22	3555	3.93	14	5	ND	ND	57	1	8	2	93	0.47	0.11	19	27	1.19	115	0.16	5	4.01	0.01	0.05	1	5	40	
S	L-2 14	2	52	8	116	0.6	20	19	821	4.41	13	5	ND	ND	61	1	2	2	109	0.60	0.18	18	31	1.30	106	0.22	5	4.35	0.01	0.05	1	6	20	
S	L-2 15	2	42	13	83	0.7	15	15	583	4.51	13	5	ND	ND	66	1	8	2	118	0.70	0.15	19	31	1.29	102	0.30	5	3.60	0.01	0.03	1	6	5	
S	L-2 16	2	60	6	125	0.3	19	18	1358	4.08	6	5	ND	ND	63	1	3	2	117	0.24	0.10	14	39	1.77	99	0.33	5	3.82	0.01	0.02	1	6	5	
S	L-2 17	3	71	4	52	0.6	14	33	2809	2.93	12	5	ND	ND	54	1	12	2	83	0.59	0.20	34	38	0.95	112	0.15	5	6.05	0.01	0.07	2	6	5	
S	L-2 18	4	50	7	56	0.2	9	62	1153	4.54	18	5	ND	ND	45	1	17																	

ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3R1  
Ph: (604)299-6910 Fax:299-6252

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.

CERTIFICATE # : 90248  
INVOICE # : 10364  
DATE ENTERED : 90-07-04  
FILE NAME : MPH90248.I  
PAGE # : 5

PROJECT : GOLDBANK  
TYPE OF ANALYSIS : ICF

PRE FIX	SAMPLE NAME	PPH MO	PPH CU	PPH PB	PPH ZN	PPH AG	PPH NI	PPH CO	PPH Mn	I FE	PPH AS	PPH U	PPH AU	PPH HG	PPH SR	PPH CD	PPH SB	PPH BI	PPH V	I CA	I P	PPH LA	PPH CR	I MG	PPH BA	I TI	PPH B	I AL	I NA	I SI	PPH W	PPH BE	PPH Au	PPH AA
S	L-2 59	2	33	8	85	1.0	10	18	641	3.37	4	5	ND	ND	61	1	2	2	86	0.48	0.09	23	34	0.61	116	0.15	5	3.37	0.01	0.06	1	4	5	
S	L-2 60	3	61	20	101	1.0	27	23	878	4.05	12	5	ND	ND	62	1	9	5	99	0.53	0.14	21	55	1.28	169	0.17	5	4.08	0.01	0.04	1	5	5	
S	L-2 61	3	41	13	161	0.2	20	27	2171	7.03	7	5	ND	ND	27	1	2	2	65	0.33	0.14	31	38	0.35	169	0.01	5	1.93	0.01	0.05	1	5	5	
S	L-2 62	3	56	12	313	0.3	38	54	5045	13.55	8	5	ND	ND	17	4	2	2	131	0.27	0.16	14	57	0.15	154	0.01	5	0.47	0.01	0.06	1	6	5	
S	L-2 63	5	93	23	82	0.2	32	24	1007	5.01	20	5	ND	ND	55	1	12	2	97	0.67	0.18	25	46	0.97	221	0.07	5	4.47	0.01	0.05	2	6	5	
S	L-2 64	1	67	10	68	0.3	22	19	839	3.59	13	5	ND	ND	67	1	2	2	88	0.66	0.18	19	35	1.30	126	0.21	5	3.60	0.01	0.05	1	4	5	
S	L-2 65	1	61	5	69	0.2	15	22	960	3.23	14	5	ND	ND	58	1	2	2	72	0.72	0.21	15	36	1.36	130	0.17	5	2.27	0.01	0.02	1	4	5	
S	L-2 66	2	64	13	74	0.2	15	18	942	3.47	8	5	ND	ND	52	1	2	2	79	0.59	0.14	17	38	1.20	121	0.19	5	2.83	0.01	0.02	1	4	5	
S	L-2 67	1	56	13	52	1.0	15	16	644	3.29	12	5	ND	ND	51	1	2	2	85	0.55	0.10	22	39	0.94	128	0.18	5	3.41	0.01	0.05	1	5	5	
S	L-2 68	1	83	13	76	1.0	19	15	1632	3.41	17	5	ND	ND	66	1	2	2	79	1.07	0.16	33	45	1.15	237	0.14	5	3.68	0.01	0.06	1	5	5	
S	L-2 69	2	91	12	75	0.8	25	22	761	3.96	14	5	ND	ND	61	1	2	2	100	0.74	0.12	24	49	1.41	166	0.24	5	4.95	0.01	0.04	1	5	5	
S	L-2 71	2	93	13	97	0.9	23	17	1173	3.84	14	5	ND	ND	57	1	2	2	89	0.73	0.18	19	38	1.47	199	0.17	5	3.62	0.01	0.02	1	5	5	
S	L-2 72	1	105	1	97	0.7	23	11	1006	3.51	5	5	ND	ND	55	1	2	2	90	0.61	0.10	15	39	1.31	159	0.17	5	3.94	0.01	0.02	1	5	5	
S	L-2 73	1	118	4	101	0.5	39	17	1273	5.12	8	5	ND	ND	64	1	2	2	101	0.71	0.18	20	45	1.56	127	0.21	5	3.32	0.01	0.03	1	5	5	
S	L-2 74	1	106	6	70	0.5	28	17	738	3.66	9	5	ND	ND	49	1	2	2	91	0.53	0.10	17	39	1.40	130	0.16	5	3.63	0.01	0.03	1	5	5	
S	L-2 75	1	131	1	71	0.6	29	16	799	3.84	3	5	ND	ND	51	1	2	2	110	0.47	0.11	10	56	1.67	114	0.23	5	4.22	0.01	0.05	1	5	5	
S	L-2 76	3	95	9	80	0.3	35	20	1025	4.45	12	5	ND	ND	51	1	2	7	125	0.46	0.11	17	56	1.76	152	0.23	5	4.30	0.01	0.04	1	6	5	
S	L-2 77	2	93	16	87	0.2	28	20	812	4.00	15	5	ND	ND	50	1	5	5	111	0.51	0.14	18	36	1.31	179	0.23	5	4.34	0.01	0.03	1	6	5	
S	L-2 78	3	50	10	78	0.3	26	17	1207	4.23	7	5	ND	ND	51	1	2	6	149	0.47	0.13	16	48	1.27	149	0.31	5	3.86	0.01	0.06	1	7	5	
S	L-2 79	2	70	16	84	0.2	34	20	768	4.35	11	5	ND	ND	56	1	2	3	118	0.38	0.11	15	38	1.27	126	0.20	5	4.47	0.01	0.04	1	6	5	
S	L-2 80	4	89	13	99	0.4	30	23	999	4.50	10	5	ND	ND	60	1	3	3	118	0.42	0.22	21	29	1.36	175	0.25	5	4.87	0.01	0.04	1	6	5	
S	L-2 81	1	49	1	92	0.1	15	8	458	3.33	2	5	ND	ND	50	1	2	2	99	0.29	0.22	11	18	1.05	70	0.18	5	4.32	0.01	0.04	1	4	5	
S	L-2 82	1	63	2	78	0.1	18	14	1042	4.08	3	5	ND	ND	51	1	2	2	89	0.37	0.36	14	18	1.05	96	0.17	5	5.15	0.01	0.07	1	5	5	
S	L-2 83	1	59	1	85	0.1	26	17	1081	4.09	2	5	ND	ND	59	1	2	2	95	0.44	0.18	15	24	1.24	144	0.17	5	4.78	0.01	0.03	1	5	5	
S	L-2 84	1	53	1	84	0.1	21	16	963	3.95	4	5	ND	ND	58	1	2	2	77	0.62	0.22	18	18	1.03	157	0.12	5	4.35	0.01	0.04	1	4	5	
S	L-2 85	2	43	7	55	0.1	14	10	429	3.82	2	5	ND	ND	47	1	2	2	95	1.36	0.11	14	24	0.90	118	0.16	5	3.95	0.01	0.05	1	4	5	
S	L-2 86	1	47	3	63	0.1	17	9	519	3.77	4	5	ND	ND	52	1	2	2	93	0.49	0.14	23	25	0.90	182	0.14	5	3.92	0.01	0.05	1	5	5	
S	L-2 87	4	56	21	115	0.3	22	17	1136	4.70	19	5	ND	ND	47	1	4	11	103	0.46	0.22	32	29	0.93	194	0.12	5	4.06	0.01	0.10	1	6	5	
S	L-2 88	2	26	13	84	0.2	7	17	1853	4.92	6	5	ND	ND	22	1	2	2	51	0.27	0.13	68	11	0.31	122	0.02	5	1.40	0.01	0.06	1	4	5	
S	L-2 89	1	92	7	103	0.4	24	16	601	4.51	6	5	ND	ND	44	1	2	2	108	0.27	0.16	22	31	1.21	175	0.23	5	5.20	0.01	0.03	1	5	5	
S	L-2 90	7	174	22	194	1.0	33	29	1165	7.31	28	5	ND	ND	34	2	18	10	126	0.22	0.18	22	35	0.79	159	0.11	5	3.82	0.01	0.07	1	7	5	
S	L-2 91	1	84	11	93	0.5	21	13	552	4.82	9	5	ND	ND	51	1	2	2	121	0.30	0.13	20	27	1.19	156	0.24	5	4.36	0.01	0.04	1	5	5	
S	L-2 92	5	84	18	80	0.3	28	20	984	4.78	14	5	ND	ND	61	2	2	12	112	0.66	0.19	30	29	1.22	295	0.22	5	3.07	0.01	0.05	1	6	5	
S	L-2 93	3	79	29	84	0.5	31	27	508	5.12	23	5	ND	ND	46	2	5	2	128	0.89	0.10	24	32	1.15	311	0.22	5	5.55	0.01	0.04	1	7	5	
S	L-2 94	2	56	5	54	0.2	26	15	287	4.31	13	5	ND	ND	31	1	2	2	45	0.56	0.08	25	22	0.14	244	0.01	5	0.84	0.01	0.05	1	3	5	
S	L-2 95	3	77	11	60	0.2	22	23	887	3.31	32	5	ND	ND	58	1	2	2	74	0.77	0.16	72	28	0.61	272	0.11	5	6.56	0.01	0.10	1	6	5	
S	L-2 96	1	106	2	102	0.2	23	18	916	3.62	13	5	ND	ND	39	1	2	2	86	0.77	0.13	39	24	0.79	238	0.12	5	8.13	0.01	0.04	1	5	5	
S	L-2 97	3	58	3	82	0.2	3	7	465	3.54	12	5	ND	ND	23	1	2	2	46	0.25	0.14	43	15	0.18	240	0.01	5	1.44	0.01	0.03	1	3	5	
S	L-2 98	2	41	13	71	0.2	7	10	859	3.05	14	5	ND	ND	39	1	2	2	91	0.45	0.11	13	21	0.58	283	0.13	5	3.01	0.01	0.04	1	4	5	
S	L-2 99	3	104	2	145	0.3	20	17	872	4.20	9	5	ND	ND	38	1	2	2	117	0.84	0.40	76	36	0.96	250	0.21	5	5.01	0.01	0.03	1	5	5	

CERTIFIED BY :

ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3J1  
Ph: (604) 299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : V 99 GREEN  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90299  
INVOICE # : 10425  
DATE ENTERED : 90-07-25  
FILE NAME : MPH90299.I  
PAGE # : 1

PRE FIX	SAMPLE NAME	PPH NO	PPH CU	PPH PB	PPH ZN	PPH AG	PPH NI	PPH CD	PPH MM	Z FE	PPH AS	PPH U	PPH AU	PPH HG	PPH SR	PPH CD	PPH SB	PPH BI	PPH V	Z CA	Z P	PPH LA	PPH CR	Z MG	PPH BA	Z TI	PPH B	Z AL	Z MA	Z SI	PPH W	PPH BE	PPH Au	PPB AA
S	L3-00	5	66	9	103	0.3	20	49	1833	7.91	10	5	ND	ND	42	1	2	2	138	0.44	0.23	10	98	0.79	126	0.13	5	5.25	0.02	0.05	19	9	5	
S	L3-01	6	89	4	122	0.3	16	35	2382	6.30	5	5	ND	ND	30	1	2	2	99	0.39	0.25	9	81	0.98	155	0.05	5	6.99	0.05	0.03	5	7	5	
S	L3-02	3	41	9	94	0.2	11	12	433	4.45	7	5	ND	ND	32	1	2	2	86	0.23	0.17	10	59	0.80	74	0.14	5	3.82	0.03	0.03	3	5	5	
S	L3-03	2	77	11	84	0.2	22	17	3078	4.17	7	5	ND	ND	51	1	2	2	58	0.61	0.22	17	63	0.99	144	0.13	5	5.69	0.02	0.06	1	6	5	
S	L3-04	2	18	14	28	0.4	6	8	263	2.09	2	5	ND	ND	29	1	2	2	55	0.24	0.06	9	30	0.32	65	0.10	16	1.50	0.01	0.01	3	3	5	
S	L3-05	2	39	8	66	0.1	15	14	1033	3.60	2	5	ND	ND	29	1	2	2	61	0.36	0.11	11	52	0.83	90	0.08	5	2.39	0.01	0.02	1	4	5	
S	L3-06	3	31	7	94	0.2	9	11	314	4.47	6	5	ND	ND	20	1	2	2	76	0.19	0.21	9	60	0.56	76	0.13	5	4.98	0.01	0.04	4	5	5	
S	L3-07	4	30	12	94	0.3	15	14	1307	3.67	10	5	ND	ND	45	1	2	2	85	0.57	0.19	11	55	0.82	116	0.13	5	3.38	0.01	0.02	1	5	5	
S	L3-08	3	36	4	86	0.2	10	15	368	5.49	2	5	ND	ND	29	1	2	2	116	0.22	0.16	8	72	0.83	64	0.33	5	4.28	0.01	0.03	1	5	5	
S	L3-09	3	28	6	56	0.2	7	9	362	3.81	2	5	ND	ND	28	1	2	2	88	0.27	0.12	7	51	0.58	53	0.22	5	3.08	0.01	0.03	1	4	5	
S	L3-10	2	24	6	38	0.2	5	9	247	3.16	2	5	ND	ND	25	1	2	5	72	0.24	0.14	7	43	0.44	46	0.14	11	2.40	0.01	0.01	1	3	5	
S	L3-11	4	34	1	75	0.1	8	10	306	4.96	5	5	ND	ND	24	1	2	2	86	0.17	0.29	8	66	0.72	45	0.20	5	4.07	0.02	0.04	1	4	5	
S	L3-12	3	36	8	85	0.2	10	12	458	4.03	2	5	ND	ND	32	1	2	2	82	0.27	0.22	8	59	0.82	53	0.19	5	3.43	0.02	0.04	1	4	5	
S	L3-13	2	58	2	75	0.1	15	16	815	3.30	2	5	ND	ND	45	1	2	2	65	0.52	0.20	14	53	1.20	78	0.19	5	2.94	0.02	0.04	1	4	5	
S	L3-14	2	44	2	75	0.1	13	13	377	4.79	2	5	ND	ND	26	1	2	2	75	0.21	0.21	10	66	0.87	60	0.11	5	3.89	0.02	0.03	1	4	5	
S	L3-15	2	26	9	66	0.3	8	11	508	3.06	4	5	ND	ND	54	1	2	4	85	0.47	0.15	8	44	0.74	67	0.14	9	2.08	0.02	0.01	1	4	5	
S	L3-16	4	54	2	94	0.5	13	30	3816	3.78	18	5	ND	ND	47	1	3	2	50	1.02	0.29	20	57	0.61	195	0.06	5	5.15	0.02	0.06	1	5	5	
S	L3-17	4	41	7	76	0.4	12	13	1097	3.93	8	5	ND	ND	41	1	2	3	73	0.64	0.17	13	53	0.74	156	0.10	5	2.33	0.02	0.02	1	4	5	
S	L3-18	2	55	5	75	0.1	15	15	1957	3.91	2	5	ND	ND	38	1	2	2	59	0.56	0.16	15	57	0.90	134	0.05	5	2.27	0.02	0.02	1	4	5	
S	L3-19	4	42	7	114	0.1	15	14	1488	4.56	2	5	ND	ND	23	1	2	3	66	0.32	0.12	13	59	0.50	130	0.01	5	2.15	0.01	0.01	1	4	5	
S	L3-20	5	44	1	66	0.2	24	14	1511	4.46	2	5	ND	ND	13	1	2	5	40	0.31	0.13	8	53	0.25	111	0.01	5	0.77	0.01	0.01	1	3	5	
S	L3-21	4	28	11	56	0.2	10	12	442	4.39	2	5	ND	ND	27	1	2	2	91	0.24	0.12	11	59	0.73	125	0.10	5	2.93	0.01	0.01	2	4	5	
S	L3-22	4	35	4	75	0.2	13	14	1190	3.94	2	5	ND	ND	38	1	2	2	70	0.48	0.21	20	55	0.92	136	0.09	5	2.87	0.01	0.02	4	4	5	
S	L3-23	9	27	7	94	0.2	14	26	1501	5.01	5	5	ND	ND	51	1	3	2	71	0.66	0.23	14	64	0.77	166	0.12	5	3.81	0.02	0.03	4	5	5	
S	L3-24	3	25	5	75	0.2	8	12	1313	3.40	9	5	ND	ND	31	1	2	2	40	0.62	0.19	28	42	0.49	255	0.01	8	2.67	0.03	0.02	3	4	5	
S	L3-25	2	55	7	75	0.1	12	12	2262	3.94	4	5	ND	ND	36	1	2	2	59	0.83	0.24	29	53	0.73	161	0.05	5	2.96	0.04	0.01	2	4	5	
S	L3-26	2	20	4	76	0.1	7	12	594	3.62	7	5	ND	ND	26	1	2	4	63	0.34	0.17	21	44	0.48	125	0.05	7	2.34	0.02	0.01	1	3	5	
S	L3-27	2	14	1	47	0.3	4	3	613	1.38	9	5	ND	ND	34	1	2	6	29	0.47	0.14	9	19	0.23	97	0.04	33	0.92	0.02	0.01	1	2	5	
S	L3-28	4	20	1	76	0.3	4	10	247	3.03	3	5	ND	ND	14	1	2	2	42	0.11	0.10	53	33	0.14	87	0.01	10	2.77	0.02	0.02	1	3	5	
S	L3-29	3	51	5	104	0.3	19	16	2243	3.82	3	5	ND	ND	42	1	2	2	63	0.72	0.24	17	57	1.13	122	0.11	5	2.56	0.02	0.02	1	4	5	
S	L3-30	2	19	8	47	0.4	8	10	294	2.91	2	5	ND	ND	26	1	2	4	64	0.18	0.11	14	39	0.41	57	0.02	10	2.09	0.01	0.01	1	3	5	
S	L3-31	2	28	15	47	0.3	10	14	447	3.70	11	5	ND	ND	30	1	2	2	87	0.18	0.11	10	55	0.36	67	0.14	5	2.91	0.01	0.01	1	4	5	
S	L3-32	3	55	6	65	0.2	19	30	1289	4.56	11	5	ND	ND	29	1	2	2	76	0.51	0.21	21	67	0.88	104	0.13	5	5.66	0.02	0.05	4	5	5	
S	L3-33	2	36	9	94	0.3	16	38	1241	3.96	9	5	ND	ND	36	1	2	2	67	0.45	0.20	18	59	0.81	103	0.09	5	4.41	0.02	0.03	5	5	5	
S	L3-34	1	30	7	75	0.3	27	22	2413	3.77	18	5	ND	ND	34	1	2	2	59	0.55	0.20	16	58	0.88	153	0.09	5	3.14	0.01	0.02	1	4	5	
S	L3-35	2	34	6	56	0.4	14	24	545	4.95	6	5	ND	ND	33	1	2	2	87	0.29	0.14	17	64	0.67	120	0.16	5	4.55	0.01	0.03	2	5	5	
S	L3-36	2	49	2	75	0.2	21	27	1110	4.49	18	5	ND	ND	42	1	2	2	70	0.58	0.22	26	72	1.14	137	0.12	5	5.04	0.01	0.04	5	5	5	
S	L3-37	3	50	6	56	0.4	24	20	962	3.77	17	5	ND	ND	48	1	2	2	72	0.61	0.20	18	61	1.26	88	0.17	5	2.88	0.01	0.02	1	4	5	
S	L3-38	1	42	11	75	0.4	15	15	4262	2.79	20	5	ND	ND	52	1	4	2	55	1.43	0.22	16	48	0.66	141	0.09	5	3.41	0.01	0.02	8	4	5	
S	L3-39	2	25	6	85	0.1	10	16	1151	3.41	11	5	ND	ND	49	1	2	2	72	0.45	0.14	10	47	0.57	107	0.10	5	2.71	0.01	0.01	1	4	5	

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CERTIFICATE OF ANALYSIS

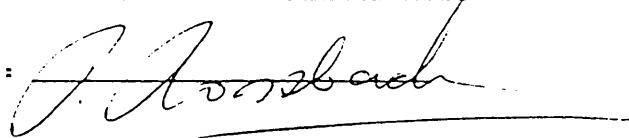
2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3B1  
Ph: (604)299-6910 Fax:299-6252

TO : MFH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : V 99 GREEN  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90299  
INVOICE # : 10425  
DATE ENTERED : 90-07-25  
FILE NAME : MFH90299.I  
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM Zn	PPM Ag	PPM NI	PPM CO	PPM Mn	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I NA	I SI	PPM W	PPM BE	PPM Au	PPM AA
S	L3-40	4	64	8	66	0.1	16	15	546	4.49	2	5	ND	ND	35	1	2	2	80	0.26	0.23	12	67	1.08	85	0.22	5	5.11	0.03	0.04	2	4	5	
S	L3-41	2	30	7	75	0.1	12	12	357	4.72	2	5	ND	ND	42	1	2	2	104	0.23	0.15	11	62	0.77	64	0.24	5	3.51	0.02	0.02	1	5	5	
S	L3-42	1	65	7	94	0.2	27	26	971	4.80	16	5	ND	ND	54	1	2	2	101	0.54	0.21	15	75	1.45	138	0.24	5	3.82	0.04	0.01	1	5	5	
S	L3-43	1	49	4	76	0.2	21	20	911	4.15	4	5	ND	ND	57	1	2	5	89	0.59	0.15	10	63	1.37	80	0.28	5	2.63	0.01	0.01	4	5	30	
S	L3-44	1	58	1	113	0.1	21	17	808	4.26	7	5	ND	ND	52	1	2	4	90	0.55	0.15	11	64	1.43	99	0.27	5	3.04	0.01	0.01	3	5	10	
S	L3-45	4	36	1	93	0.2	5	19	176	5.08	6	5	ND	ND	18	1	2	2	76	0.57	0.23	7	65	0.22	45	0.14	5	9.74	0.02	0.02	11	6	5	
S	L3-46	5	162	5	133	0.1	18	22	1747	8.92	2	5	ND	ND	11	1	2	6	95	0.11	0.17	19	96	0.24	150	0.01	5	2.60	0.01	0.02	1	7	5	
S	L3-47	2	61	4	113	0.2	11	17	388	5.10	6	5	ND	ND	33	1	2	4	115	0.20	0.15	11	67	0.70	81	0.16	5	4.40	0.01	0.03	3	6	5	
S	L3-48	2	100	4	122	0.2	23	28	599	4.71	3	5	ND	ND	30	1	2	2	94	0.20	0.15	16	70	0.98	117	0.12	5	6.56	0.01	0.03	5	6	5	
S	L3-49	3	71	9	84	0.2	18	26	1659	3.91	15	5	ND	ND	26	1	5	2	64	0.39	0.22	25	60	0.89	195	0.04	5	5.18	0.02	0.05	4	5	40	
S	L3-50	3	72	13	66	0.4	22	21	1656	3.88	8	5	ND	ND	44	1	2	2	68	0.52	0.23	22	61	1.60	177	0.16	5	3.07	0.02	0.03	2	4	110	
S	L3-51	2	209	12	227	0.9	19	21	3460	4.53	16	5	ND	ND	52	1	2	2	62	0.73	0.22	30	63	1.63	241	0.14	5	2.76	0.02	0.01	6	5	220	
S	L3-52	2	308	12	751	0.4	12	20	5526	5.55	22	5	ND	ND	39	8	2	2	55	0.64	0.24	43	70	1.72	318	0.04	5	3.23	0.02	0.01	9	6	520	
S	L3-53	2	103	6	380	0.7	22	19	1754	4.19	2	5	ND	ND	52	1	2	2	71	0.60	0.24	24	67	1.55	221	0.21	5	3.65	0.02	0.01	7	5	30	
S	L3-54	3	161	7	370	0.8	25	26	4940	5.24	18	5	ND	ND	53	2	4	2	79	0.61	0.21	32	75	1.44	268	0.21	5	3.96	0.01	0.01	2	6	1760	
S	L3-55	3	207	10	427	0.6	21	32	4785	6.08	17	5	ND	ND	42	2	2	2	72	0.48	0.22	32	76	1.28	247	0.16	5	3.42	0.01	0.01	1	5	1320	
S	L3-56	3	113	6	170	0.6	20	27	3562	5.29	10	5	ND	ND	41	1	2	2	74	0.41	0.21	25	69	1.16	199	0.18	5	3.18	0.01	0.01	6	5	900	
S	L3-57	3	134	9	218	0.4	17	30	5022	7.22	21	5	ND	ND	31	1	2	2	69	0.36	0.21	31	94	1.02	244	0.10	5	3.23	0.01	0.02	3	5	720	
S	L3-58	2	51	3	113	0.2	19	24	834	4.42	11	5	ND	ND	46	1	3	2	95	0.33	0.12	17	62	1.03	205	0.27	5	4.01	0.01	0.02	1	5	20	
S	L3-59	1	66	7	104	0.2	20	27	924	4.37	10	5	ND	ND	41	1	2	2	66	0.56	0.22	55	63	1.12	309	0.16	5	4.09	0.01	0.02	12	6	10	
S	L3-60	3	52	9	94	0.3	19	22	942	4.22	6	5	ND	ND	55	1	9	3	77	0.62	0.18	29	62	1.23	307	0.27	5	3.43	0.01	0.02	6	5	10	
S	L3-61	2	100	12	104	0.2	16	22	1279	3.95	2	5	ND	ND	56	1	2	2	76	0.59	0.20	26	60	1.36	273	0.26	5	3.66	0.01	0.02	1	5	5	
S	L3-62	1	87	6	104	0.2	16	22	1039	4.03	2	5	ND	ND	68	1	2	2	79	0.73	0.22	19	64	1.86	204	0.23	5	3.02	0.03	0.02	3	5	410	
S	L3-63	1	65	7	94	0.4	15	20	1027	3.95	2	5	ND	ND	47	1	2	2	76	0.46	0.20	14	57	1.33	165	0.15	5	2.88	0.02	0.01	1	5	30	
S	L3-64	2	50	8	66	0.2	9	14	357	4.11	2	5	ND	ND	37	1	2	2	91	0.25	0.16	11	55	0.70	70	0.23	5	3.78	0.04	0.05	6	4	140	
S	L3-65	1	55	9	66	0.4	16	15	823	3.73	2	5	ND	ND	64	1	2	2	77	0.78	0.24	20	55	1.19	69	0.29	5	2.56	0.02	0.03	3	4	20	
S	L3-66	2	66	9	75	0.3	18	20	809	3.95	3	5	ND	ND	63	1	2	2	82	0.80	0.22	13	60	1.43	81	0.25	5	3.14	0.02	0.05	7	5	30	
S	L3-67	1	73	1	57	0.2	16	19	731	3.83	4	5	ND	ND	55	1	2	3	77	0.69	0.25	18	56	1.30	64	0.28	5	2.58	0.02	0.02	3	4	5	
S	L3-68	1	103	8	75	0.4	18	22	1103	3.81	9	5	ND	ND	56	1	2	2	77	0.69	0.23	17	56	1.33	123	0.26	5	2.90	0.02	0.02	5	5	5	
S	L3-69	2	39	3	57	0.1	13	11	737	2.97	11	5	ND	ND	40	1	2	4	64	0.44	0.14	10	44	0.89	85	0.20	5	2.28	0.02	0.02	1	3	10	
S	L3-70	2	23	5	47	0.1	9	9	479	3.22	2	5	ND	ND	37	1	2	6	75	0.35	0.13	9	43	0.56	81	0.21	10	2.22	0.02	0.01	1	4	5	
S	L3-71	2	62	6	47	0.1	21	17	850	3.49	16	5	ND	ND	61	1	8	2	71	0.76	0.22	17	58	1.54	129	0.27	5	2.67	0.01	0.01	2	4	5	
S	L3-72	2	60	2	56	0.3	21	23	1111	3.74	5	5	ND	ND	51	1	2	2	67	0.62	0.19	17	55	1.17	113	0.23	5	3.40	0.01	0.03	1	4	5	
S	L3-73	3	43	5	56	0.2	21	22	816	4.52	2	5	ND	ND	55	1	4	2	81	0.61	0.19	14	67	1.29	139	0.26	5	2.97	0.01	0.01	1	4	5	
S	L3-74	2	42	1	66	0.3	23	25	877	4.57	7	5	ND	ND	52	1	3	2	89	0.47	0.22	16	67	1.06	143	0.26	5	3.97	0.02	0.03	1	5	5	
S	L3-75	1	51	5	85	0.1	25	24	582	4.37	2	5	ND	ND	39	1	3	2	91	0.22	0.13	9	65	0.94	134	0.25	5	4.22	0.02	0.02	1	5	5	
S	L3-76	1	175	14	84	0.4	37	29	4050	4.29	13	5	ND	ND	112	1	2	2	78	1.27	0.19	16	75	1.78	236	0.16	5	4.15	0.02	0.06	3	5	5	
S	L3-77	1	85	5	75	0.1	26	21	3418	4.36	5	5	ND	ND	56	1	2	2	95	0.53	0.17	13	67	1.22	153	0.27	5	3.89	0.02	0.04	1	5	5	
S	L3-78	1	51	3	56	0.1	30	21	1473	3.72	4	5	ND	ND	57	1	5	2	86	0.57	0.23	10	67	1.49	147	0.25	5	3.73	0.01	0.04	1	4	5	
S	L3-79	1	60	4	84	0.2	16	28	1579	3.23	13	5	ND	ND	90	1	2	2	89	1.18	0.28	9	49	0.73	164	0.18	5	5.48	0.01	0.02	9	5	5	

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ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3R1
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W. HASTINGS ST.
VANCOUVER, B.C.
PROJECT : V 99 GREEN
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90299
INVOICE # : 10425
DATE ENTERED : 90-07-25
FILE NAME : MPH90299.I
PAGE # : 3

Table with columns for PRE FIX, SAMPLE NAME, and various chemical elements (PPM, I, Z) including Mn, Fe, U, Au, Hg, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, Si, W, Be, Au, Pb. Rows correspond to samples L3-80 through L3-119.

CERTIFIED BY :

Handwritten signature of Rossbacher

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ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

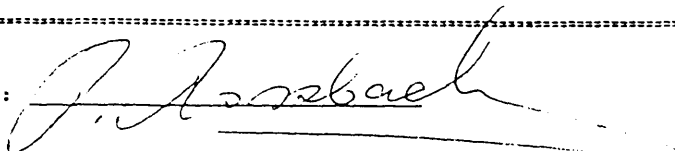
2225 S. Springer Ave., Burnaby,  
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Ph: (604)299-6910 Fax: 299-6252

TO : MFH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : V 99 GREEN  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90299  
INVOICE # : 10425  
DATE ENTERED : 90-07-25  
FILE NAME : MFH90299.I  
PAGE # : 4

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM MN	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I NA	I SI	PPM W	PPM BE	PPM Au	PPB AA
S	L3-120	1	43	12	85	0.4	9	1	288	4.72	3	5	ND	ND	24	1	2	2	50	0.09	0.05	12	54	0.43	88	0.06	5	4.79	0.02	0.04	1	4	5	
T	9T071900	3	28	15	47	1.5	6	26	52	4.15	52	5	ND	ND	7	1	2	7	7	0.05	0.07	1	73	0.04	46	0.01	52	0.34	0.01	0.01	1	1	670	
T	9T071902	3	17	17	46	1.7	4	13	40	4.42	66	5	ND	ND	3	1	2	6	6	0.03	0.03	1	52	0.03	79	0.01	27	0.28	0.01	0.01	1	1	1200	
T	9T071903	1	75	11	199	0.6	11	8	1482	4.19	34	5	ND	ND	55	2	2	2	20	3.38	0.30	11	53	0.84	78	0.01	5	1.43	0.01	0.05	2	2	550	

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ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3W1  
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : V 99 GREEN  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90351  
INVOICE # : 10478  
DATE ENTERED : 90-08-13  
FILE NAME : MPH90351.I  
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM Mn	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I NA	I SI	PPM M	PPM BE	PPM AU	PPB AA
3	L3-1 40	2	22	11	76	0.3	8	36	294	3.23	11	5	ND	7	54	1	12	15	107	0.32	0.06	17	26	0.56	57	0.15	5	1.95	0.01	0.01	15	4	40	
3	L3-1 41	3	61	18	136	1.8	10	74	7630	3.16	17	5	ND	ND	50	2	5	2	59	1.03	0.13	19	25	0.39	195	0.07	5	4.10	0.01	0.01	15	4	5	
3	L3-1 42	5	54	14	101	1.0	13	73	1691	2.65	27	5	ND	ND	46	1	11	3	70	0.82	0.09	22	38	0.54	117	0.06	5	4.24	0.01	0.03	9	4	10	
3	L3-1 43	6	57	11	49	1.2	5	63	2398	1.06	36	5	ND	5	48	2	10	2	30	1.18	0.16	45	56	0.12	101	0.01	22	4.85	0.01	0.05	9	4	5	
3	L3-1 44	3	28	8	75	0.8	9	51	1200	3.14	17	5	ND	ND	51	1	2	7	92	0.67	0.06	14	30	0.45	107	0.08	5	2.54	0.01	0.01	1	4	5	
3	L3-1 45	3	65	12	125	0.5	14	65	1543	3.82	32	5	ND	ND	65	1	4	6	89	0.81	0.09	22	37	0.63	159	0.14	5	3.68	0.01	0.01	7	5	330	
3	L3-1 46	2	45	6	110	0.9	14	61	706	4.27	21	5	ND	ND	61	1	9	2	98	0.60	0.06	12	35	1.09	126	0.22	5	3.20	0.01	0.01	1	4	100	
3	L3-1 47	3	77	17	110	1.2	17	85	1157	5.56	27	5	ND	ND	95	1	9	2	97	1.14	0.12	14	41	1.43	173	0.17	5	4.44	0.01	0.02	16	4	5	
3	L3-1 48	2	91	16	110	1.5	22	70	977	3.98	17	5	ND	ND	64	1	11	2	94	0.97	0.13	20	43	1.40	135	0.24	5	3.62	0.01	0.04	8	4	20	
3	L3-1 49	1	30	11	67	0.7	4	30	256	2.88	4	5	ND	ND	44	1	2	7	75	0.31	0.05	10	16	0.32	79	0.14	5	1.73	0.01	0.01	2	3	20	
3	L3-1 50	1	26	13	128	1.2	13	59	527	4.15	11	5	ND	ND	48	1	12	10	90	0.54	0.07	12	27	0.72	141	0.24	5	2.95	0.01	0.01	6	4	50	
3	L3-1 51	3	43	9	76	0.8	14	50	664	3.33	10	5	ND	ND	69	1	5	17	75	0.67	0.11	21	28	1.06	135	0.22	5	2.64	0.01	0.02	6	4	20	
3	L3-1 52	2	43	9	75	0.6	14	48	1468	3.55	20	5	ND	ND	59	1	4	7	75	0.55	0.09	20	27	0.93	157	0.25	5	2.72	0.01	0.01	7	4	20	
3	L3-1 53	1	20	11	49	0.3	6	34	425	2.47	11	5	ND	ND	45	1	2	12	62	0.40	0.05	13	14	0.26	152	0.08	7	1.90	0.01	0.01	3	3	20	
3	L3-1 54	2	22	9	67	0.5	8	42	403	4.14	12	5	ND	ND	57	1	6	2	102	0.27	0.07	12	24	0.68	101	0.23	5	2.89	0.01	0.01	4	4	10	
3	L3-1 55	2	33	4	67	0.1	10	56	476	4.65	4	5	ND	ND	55	1	6	2	102	0.27	0.12	12	26	0.86	137	0.15	5	4.05	0.01	0.01	1	4	20	
3	L3-1 56	2	21	6	73	0.2	7	48	2205	3.83	7	5	ND	ND	33	1	3	2	88	0.45	0.12	12	22	0.53	150	0.19	5	3.03	0.01	0.01	1	4	40	
3	L3-1 57	1	25	4	58	0.6	9	41	419	3.99	16	5	ND	ND	87	1	2	2	90	0.35	0.11	12	26	0.69	63	0.22	5	3.14	0.01	0.01	2	3	20	
3	L3-1 58	1	11	11	1	0.1	3	22	207	2.82	8	5	ND	ND	47	1	4	3	95	0.30	0.08	8	14	0.32	56	0.21	5	1.68	0.01	0.01	5	3	10	
3	L3-1 59	2	95	11	49	0.8	16	41	950	3.67	13	5	ND	ND	75	1	3	2	83	0.75	0.23	23	32	1.32	140	0.29	5	2.51	0.01	0.01	6	3	5	
3	L3-1 60	2	55	9	93	0.9	17	39	980	3.39	14	5	ND	ND	67	1	2	21	91	0.60	0.14	18	29	1.14	126	0.28	5	2.58	0.01	0.01	1	4	5	
3	L3-1 61	1	63	15	119	0.9	20	48	1049	3.71	11	5	ND	ND	66	1	7	7	85	0.35	0.09	17	36	1.38	152	0.29	5	3.99	0.01	0.01	1	4	10	
3	L3-1 62	2	45	10	58	0.1	8	38	483	3.67	14	5	ND	ND	47	1	2	7	76	0.25	0.08	11	23	0.74	100	0.05	5	2.94	0.01	0.01	5	3	10	
3	L3-1 63	3	39	13	101	0.5	11	42	885	3.74	11	5	ND	ND	44	1	4	4	74	0.29	0.12	10	27	0.83	116	0.11	5	3.43	0.01	0.01	1	4	20	
3	L3-1 64	1	15	10	67	0.1	3	21	235	3.19	13	5	ND	ND	41	1	3	17	87	0.22	0.05	11	15	0.24	56	0.14	5	1.71	0.01	0.01	1	3	10	
3	L3-1 64A	1	43	12	110	0.8	14	47	520	4.48	14	5	ND	ND	53	1	11	3	100	0.50	0.11	17	28	0.83	119	0.16	5	4.02	0.01	0.01	1	4	40	
3	L3-1 65	2	57	7	101	1.3	13	45	645	4.16	10	5	ND	ND	57	1	7	2	38	0.43	0.20	20	29	1.02	100	0.25	5	3.67	0.01	0.02	1	4	20	
3	L3-1 66	1	48	13	119	0.8	11	46	455	4.62	11	5	ND	ND	45	1	6	2	101	0.25	0.28	13	20	0.82	82	0.24	5	4.22	0.01	0.02	1	4	10	
3	L3-1 67	2	30	7	73	0.9	10	38	758	4.14	15	5	ND	ND	56	1	2	2	97	0.23	0.22	11	28	0.87	67	0.26	5	3.42	0.01	0.01	4	3	20	
3	L3-1 68	3	33	13	75	0.7	3	33	278	5.14	2	5	ND	ND	30	1	2	2	146	0.15	0.15	11	25	0.37	74	0.21	5	3.73	0.01	0.01	1	5	20	
3	L3-1 69	2	20	6	67	0.1	9	22	273	2.36	3	5	ND	ND	60	1	2	19	63	0.24	0.10	6	22	0.61	53	0.08	5	2.07	0.01	0.01	1	2	10	
3	L3-1 70	3	55	7	94	0.1	13	33	553	4.00	7	5	ND	ND	34	1	2	4	77	0.19	0.13	7	29	0.84	82	0.02	5	3.18	0.01	0.01	3	3	90	
3	L3-1 40	4	37	17	119	1.3	28	49	752	4.28	15	5	ND	ND	51	1	2	5	122	1.56	0.13	8	63	1.66	70	0.27	5	3.44	0.01	0.01	2	5	20	
3	L3-1 41	3	44	14	128	0.9	13	42	634	5.33	16	5	ND	ND	56	1	6	2	157	0.41	0.11	10	39	1.03	82	0.35	5	2.92	0.01	0.01	3	6	5	
3	L3-1 42	1	12	12	41	0.4	3	17	229	2.54	2	5	ND	ND	55	1	2	3	106	0.41	0.07	10	20	0.26	42	0.22	5	1.74	0.01	0.01	1	4	10	
3	L3-1 43	1	21	14	49	0.4	9	23	195	3.15	2	5	ND	ND	61	1	2	7	146	0.35	0.07	7	23	0.52	45	0.31	5	1.99	0.01	0.01	1	5	5	
3	L3-1 44	2	69	14	110	1.3	16	40	2098	4.15	11	5	ND	ND	54	1	10	2	85	0.36	0.29	15	36	1.16	95	0.17	5	3.04	0.01	0.02	3	3	20	
3	L3-1 45	1	11	19	32	0.4	2	12	217	1.82	6	5	ND	ND	25	1	2	9	92	0.37	0.07	5	16	0.26	24	0.25	5	1.14	0.01	0.01	1	3	10	
3	L3-1 46	2	71	16	128	0.7	13	41	565	4.96	3	5	ND	ND	55	1	2	1	115	0.31	0.13	12	36	1.14	80	0.27	5	4.21	0.01	0.01	3	4	10	
3	L3-1 47	3	17	12	49	0.1	4	19	323	3.16	16	5	ND	ND	49	1	2	16	101	0.33	0.10	9	17	0.34	52	0.18	5	2.12	0.01	0.01	1	4	10	

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CERTIFICATE OF ANALYSIS

2225 S. Springer Ave., Burnaby,  
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Ph: (604)299-6910 Fax: 299-6252

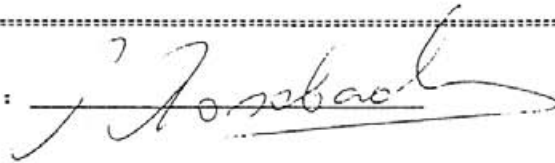
TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.

PROJECT : V 99 GREEN  
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 90331  
INVOICE # : 10478  
DATE ENTERED : 90-08-13  
FILE NAME : MPH90331.1  
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM NO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM MN	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I NA	I SI	PPM W	PPM BE	PPM Au	PPM AA
1	L3+1 48	2	18	10	49	0.2	6	26	282	3.85	18	5	ND	ND	57	1	2	13	117	0.31	0.11	10	22	0.48	58	0.22	5	2.77	0.01	0.01	1	4	5	
1	L3+1 49	1	21	13	49	0.1	5	22	315	3.42	16	5	ND	ND	51	1	2	15	105	0.38	0.13	9	21	0.50	43	0.22	5	3.11	0.01	0.01	1	4	5	
1	L3+1 50	1	13	13	49	0.1	2	23	287	2.59	2	5	ND	ND	49	1	2	13	95	0.30	0.08	9	16	0.28	45	0.14	5	2.46	0.01	0.01	1	3	10	
1	L3+1 51	2	16	5	49	0.5	5	31	340	4.06	9	5	ND	ND	64	1	2	2	111	0.36	0.11	9	24	0.71	44	0.14	5	3.59	0.01	0.01	2	4	5	
1	L3+1 52	1	45	10	101	0.6	13	40	635	5.23	7	5	ND	ND	57	1	2	2	103	0.26	0.20	14	35	1.14	90	0.26	5	4.22	0.01	0.01	6	4	20	
1	L3+1 53	2	20	14	67	0.6	7	22	381	3.68	14	5	ND	ND	59	1	2	6	104	0.37	0.09	13	22	0.47	98	0.20	5	2.41	0.01	0.01	1	4	10	
1	L3+1 54	3	67	30	153	1.1	23	136	6308	4.32	17	5	ND	ND	39	1	3	2	32	0.41	0.20	26	50	0.76	182	0.14	5	5.06	0.01	0.01	1	5	5	
1	L3+1 55	1	55	10	101	1.5	29	47	1892	4.22	16	5	ND	ND	66	1	5	2	92	0.77	0.14	22	37	1.31	207	0.27	5	4.00	0.02	0.01	3	4	10	
1	L3+1 56	2	49	17	119	0.7	20	47	678	5.80	14	5	ND	ND	52	1	2	2	124	0.27	0.11	14	41	1.18	145	0.36	5	4.61	0.01	0.01	1	5	30	
1	L3+1 57	2	53	14	171	1.3	23	66	4894	4.14	23	5	ND	ND	56	1	2	2	81	0.75	0.23	27	33	0.80	255	0.17	5	5.18	0.01	0.01	1	4	20	
1	L3+1 58	1	48	11	84	0.1	21	36	605	4.63	11	5	ND	ND	68	1	2	2	105	0.34	0.13	17	38	1.38	120	0.32	5	3.86	0.01	0.01	4	4	5	
1	L3+1 59	1	18	29	58	0.3	5	23	496	4.05	7	5	ND	ND	73	1	2	9	125	0.34	0.08	15	23	0.44	69	0.24	5	2.79	0.01	0.01	1	4	5	
1	L3+1 60	2	48	20	119	0.1	8	34	489	5.46	7	5	ND	ND	73	1	2	2	150	0.32	0.10	11	31	0.71	147	0.16	5	4.00	0.01	0.01	1	5	5	
1	L3+1 61	1	71	9	127	0.4	22	43	472	4.59	9	5	ND	ND	35	1	2	2	116	0.22	0.07	11	36	0.70	172	0.18	5	5.19	0.01	0.01	1	5	20	
1	L3+1 62	1	100	10	249	1.3	18	41	1458	3.39	20	5	ND	ND	57	2	2	2	57	1.05	0.20	32	38	0.69	381	0.08	7	3.48	0.01	0.04	1	4	5	
1	L3+1 63	2	85	9	310	1.1	21	56	1635	2.79	10	5	ND	ND	52	2	2	2	42	0.96	0.22	25	24	0.68	321	0.10	5	7.98	0.02	0.04	1	4	5	
1	L3+1 64	1	83	11	319	0.9	31	47	1486	3.10	11	5	ND	ND	52	1	2	2	90	0.85	0.15	26	29	1.05	241	0.19	5	6.12	0.02	0.02	1	4	5	
1	L3+1 65	2	54	7	284	0.2	16	56	1169	4.40	15	5	ND	ND	39	1	2	2	94	0.25	0.13	16	29	0.83	180	0.16	5	5.66	0.01	0.02	1	5	10	
1	L3+1 66	3	60	9	179	0.2	6	64	2979	3.46	5	5	ND	ND	19	1	2	2	59	0.12	0.20	19	26	0.42	116	0.08	5	2.99	0.01	0.03	1	4	5	
1	L3+1 67	2	42	12	249	1.5	10	65	1143	3.47	17	5	ND	ND	29	1	6	2	71	0.58	0.14	20	23	0.24	211	0.06	7	6.82	0.01	0.04	4	6	5	
1	L3+1 68	1	65	11	136	0.6	10	35	330	5.34	14	5	ND	ND	46	1	2	2	136	0.31	0.10	10	30	0.73	285	0.02	5	5.15	0.01	0.01	1	5	50	
1	L3+1 69	2	64	7	93	0.1	6	23	210	5.21	22	5	ND	ND	32	1	2	8	92	0.28	0.12	8	21	0.54	114	0.01	8	2.74	0.01	0.01	1	3	110	
1	L3+1 70	1	34	9	110	0.1	6	16	318	2.55	14	5	ND	ND	38	1	2	16	85	0.41	0.11	7	17	0.39	131	0.03	15	2.27	0.01	0.01	1	4	270	
1	L3- 55	38	950	62	3091	167.1	16	51	321	15.96	1110	5	609	8	17	10	2	1527	75	0.16	0.24	21	61	0.51	164	0.06	5	2.22	0.01	0.01	2	5200000		
1	L3-55A	40	2678	61	1689	20.3	25	194	15528	17.95	210	5	24	ND	7	21	6	229	75	0.08	0.14	20	64	0.22	399	0.01	5	1.86	0.01	0.02	1	2	36000	
1	L3- 56	4	156	17	258	2.4	19	46	4907	7.25	32	5	40	ND	41	2	2	2	77	0.40	0.26	33	36	1.93	251	0.13	5	2.57	0.01	0.02	1	5	600	
1	L3- 57	1	90	13	249	2.0	18	58	1287	4.29	19	5	ND	ND	44	1	2	2	53	0.45	0.20	33	34	0.71	261	0.16	5	5.72	0.01	0.04	1	7	100	
1	L3- 62	2	81	16	119	1.0	17	28	993	3.73	14	5	ND	ND	77	2	2	2	62	0.72	0.20	20	34	1.66	268	0.24	5	2.15	0.01	0.01	1	4	50	
1	L3-23A	13	112	76	123	1.8	17	89	733	11.87	134	5	ND	ND	6	2	2	2	49	0.34	0.24	11	41	0.42	190	0.01	5	1.71	0.01	0.01	1	2	2150	
1	PT030600	1	64	15	93	1.0	14	27	574	2.64	16	5	ND	ND	191	2	11	5	86	1.24	0.26	14	44	2.32	50	0.27	5	2.70	0.01	0.01	6	4	ASSAY	
1	PT030601	27	1031	66	477	204.7	8	48	265	15.32	430	5	145	ND	3	4	2	1825	7	0.02	0.04	5	74	0.04	61	0.01	61	0.23	0.01	0.01	1	1	ASSAY	
1	PT030602	27	1200	125	408	300.7	11	71	202	16.01	346	5	151	ND	1	7	2	2288	4	0.01	0.05	2	78	0.01	61	0.01	1010	0.21	0.01	0.02	1	1	ASSAY	
1	PT030603	14	598	32	949	21.5	9	56	493	18.64	295	5	50	ND	2	12	2	69	7	0.02	0.06	6	66	0.02	73	0.01	20	0.29	0.01	0.01	1	1	ASSAY	
1	PT030604	6	78	22	59	1.9	5	12	150	4.70	44	5	ND	ND	3	1	2	23	7	0.02	0.03	2	51	0.03	56	0.01	37	0.26	0.01	0.01	1	1	ASSAY	

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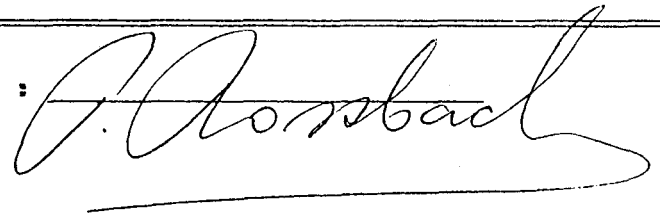
CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : V302 ~~BON~~ SILTS  
TYPE OF ANALYSIS : *CONCRETE CHECK*

CERTIFICATE # : 90174  
INVOICE # : 10287  
DATE ENTERED : 90-04-20  
FILE NAME : MPH90174  
1 PAGE # :

PRE FIX	SAMPLE NAME		Wt.gm	FPB Au
L	SILT 90- 1	HEAVY	91.0	660
L	SILT 90- 2	HEAVY	23.5	270
L	SILT 90- 3	HEAVY	73.9	300
L	SILT 90- 4	HEAVY	29.3	30
L	SILT 90- 5	HEAVY	20.7	700
L	SILT 90- 5A	HEAVY	52.4	1010
L	SILT 90- 6	HEAVY	65.7	1690
L	SILT 90- 6A	HEAVY	64.0	1970

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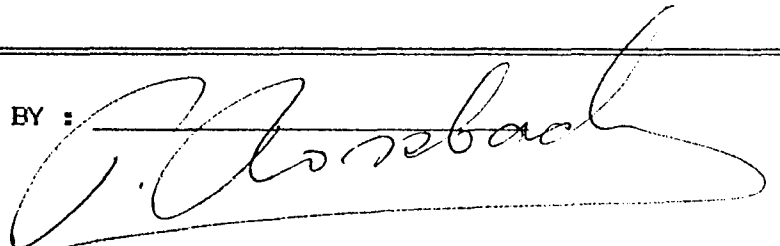
CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : V 99 GREEN  
TYPE OF ANALYSIS : ASSAY

CERTIFICATE # : 90351A  
INVOICE # : 10478  
DATE ENTERED : 90-08-15  
FILE NAME : MPH90351.A  
PAGE # : 1

PRE FIX	SAMPLE NAME	oz/t Au
A	9T 080600	0.001
A	9T 080601	3.850
A	9T 080602	4.680
A	9T 080603	1.320
A	9T 080604	0.033

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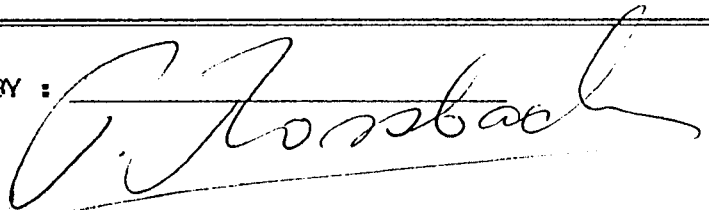
CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : V 99 GREEN  
TYPE OF ANALYSIS : ASSAY

CERTIFICATE # : 90299A  
INVOICE # : 10441  
DATE ENTERED : 90-07-30  
FILE NAME : MPH90299.A  
PAGE # : 1

PRE FIX	SAMPLE NAME	oz/t Au
A	9071900	0.024
A	9071902	0.041
A	9071903	0.020

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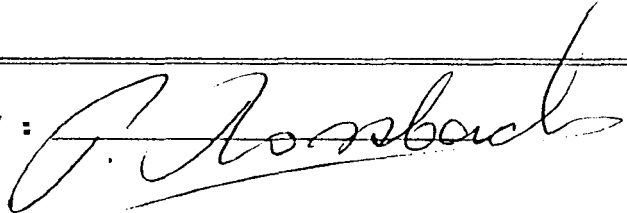
CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : 99 GREEN  
TYPE OF ANALYSIS : ASSAY

CERTIFICATE # : 90326A  
INVOICE # : 10455  
DATE ENTERED : 90-08-03  
FILE NAME : MPH90326.A  
PAGE # : 1

FRE		oz/t
FIX	SAMPLE NAME	Au
T	9 T 73000	0.095

CERTIFIED BY :



ISSUED AUG 7 1990





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NORTH VANCOUVER, B.C. CANADA V7M 1T2  
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FAX (604) 880-8821

THUNDER BAY LAB.:  
TELEPHONE (807) 822-8858  
FAX (807) 823-5831

SMITHERS LAB.:  
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

1V-0199-R01

Company: AMERICAN BULLION  
Project:  
Attn: W. ROBERTS

Date: FEB-20-91  
Copy 1. AMERICAN BULLION, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 9 ROCK samples submitted FEB-15-91 by DAVE HEINO.

Sample Number	AU-FINE PFB
11451	190
11453	510
11454	72
11456	101
11457	340
11458	491
11459	882

*APP-DEF -  
Goldbank ventures  
GREEN CREEK Property*

Certified by *[Signature]*



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 FAX (604) 980-9021

**THUNDER BAY LAB.:**  
 TELEPHONE (807) 622-1195B  
 FAX (807) 623-6931

**SMITHERS LAB.:**  
 TELEPHONE/FAX (604) 817-3001

Assay Certificate

1V-0199-RA1

Company: **AMERICAN BULLION**  
 Project:  
 Attn: **W. ROBERTS**

Date: **FEB-20-91**  
 Copy 1, AMERICAN BULLION, VANCOUVER, B.C.

*We hereby certify the following Assay of 2 ROCK samples submitted FEB-15-91 by DAVE HEINO.*

Sample Number	AU	AU
	g/tonne	oz/ton
11452	61.70	1.908
11455	14.15	.413

Certified by 



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FAX (604) 980-9821

THUNDER BAY LAB.:  
TELEPHONE (807) 622-8958  
FAX (807) 623-5931

SMITHERS LAB.:  
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

1V-0226-RG1

Company: **CYPRUS GOLD CANADA LTD.**  
Project: **GREEN CREEK**  
Attn: **DAVID B. STEVENSON**

Date: **MAR-08-91**  
Copy 1: **CYPRUS GOLD CANADA, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 11 ROCK samples submitted MAR-01-91 by D. STEVENSON.

Sample Number	AU-FIRE PPB	AG PPM	AS PPM	SE PPM	HG PPB
50010	1	4.3	12	28	150
50011	1	6.6	16	82	415
50012	22000	21.3	475	7	940
50013	2210	3.3	41	6	520
50014	37000	9.8	650	6	25
50015	315	1.3	25	5	30
50016	116	0.8	22	5	25
50017	105	0.7	15	3	165
50018	12000	30.1	225	672	459000
9019	1275	2.3	75	11	35000
9020	172	1.2	22	11	48000

*Goldbank*  
*Attention Harry*

Certified by

MIN-EN LABORATORIES

ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : ONE CONSULTING LTD.  
#2405-555 WEST HASTINGS STREET  
VANCOUVER, B.C.

CERTIFICATE # : 91042  
INVOICE # : PENDING  
DATE ENTERED : 91-02-19  
FILE NAME : ONE91042  
PAGE # : 1

PROJECT : TED HAYES  
TYPE OF ANALYSIS : GEOCHEMICAL *Green Pt.*

FILE FIX	SAMPLE NAME	FFM Ag	FPB Au
S	91021400	5.2	17500

CERTIFIED BY : \_\_\_\_\_

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

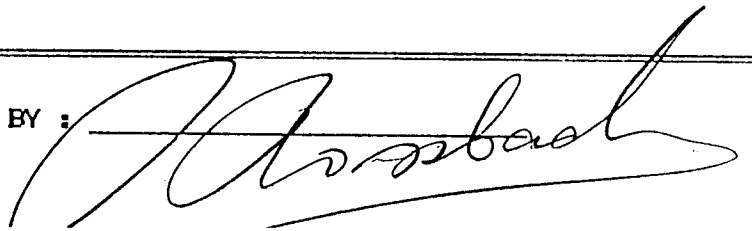
2225 S. Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph: (604)299-6910 Fax: 299-6252

TO : MPH CONSULTING LTD.  
#2406-555 W. HASTINGS ST.  
VANCOUVER, B.C.  
PROJECT : GOLDBANK  
TYPE OF ANALYSIS : ASSAY

CERTIFICATE # : 90248A  
INVOICE # : 10374  
DATE ENTERED : 90-07-10  
FILE NAME : MPH90248.A  
PAGE # : 1

FRE FIX	SAMPLE NAME	oz/t Au
A	T 90062800	2.780
P	T 90062701	0.080
P	T 90062702	0.052
P	T 90062703	0.014
P	T 90062704	0.029
P	T 90062707	0.012
P	T 90062709	0.052

CERTIFIED BY :



RECEIVED JUL 13 1990



**LEGEND**  
**GEOLOGY**

- MESOZOIC**  
**CRETACEOUS**  
Upper Cretaceous
- 6 **Nanaimo Group**  
Grey-brown to black shales and conglomerates with lesser amounts of siltstone and sandstone. Locally calcareous matrix.  
6a shale  
6b sandstone, siltstone  
6c conglomerate
- JURASSIC**  
Lower to Middle Jurassic
- 5 **Island Intrusions**  
Granodiorite to quartz diorite to diorite; local leucocratic and granitic dykes. Strongly magnetic. Local dioritic(?) xenoliths.  
5a granodiorite, quartz diorite, diorite  
5b leucocratic and granitic dykes.
- TRIASSIC**  
Middle and Upper Triassic
- 4 **Karmutsen Formation (2)**  
Strongly shaly, massive to weakly graded basalt. Strongly magnetic, minor disseminated pyrite.
- PALEOZOIC**
- 3 **Sicker Group**  
**Buttle Lake Formation**  
Interbedded cherty sediment, argillite, siltstone, and local limestone. Minor pyrite and pyrrhotite.  
3a argillite  
3b siltstone  
3c cherty sediments  
3d limestone (crystalline, bioclastic)
- 2 **Mafic volcanic rocks**  
Hornblende feldspar porphyritic basalt to crystalline basalt and diabasic appearing basalts. Strongly fractured. Epidote and sericite alteration. Strongly magnetic. Minor disseminated pyrite and trace chalcoprite. Locally onkerite sericite schist with 5-10% pyrite; trace fuchsite (?); moderate to strong schistosity.  
2a basalt to diabasic basalt  
2b pyritic onkerite sericite schist.
- 1 **Heterolithic volcaniclastic rocks, including lapilli tuffs, pyroxene/plagioclase crystal tuffs, ash tuffs, and tuffaceous agglomerates and breccias; locally overlain by massive, oolitic and pillowed basic flows.**  
1a tuffaceous agglomerates and breccias  
1b ash tuff  
1c lapilli tuff  
1d crystal tuff (plagioclase/pyroxene)  
1e basalt  
1f cherty tuff  
1g undifferentiated tuff

**SYMBOLS**

- Geological contact  
Fault  
Quartz vein  
DDH 61-45M Drillhole location & dip (1988)  
▲ Silt sample, Au in ppp  
⊕ HMC silt sample, Au in ppp, As in ppm, (standard silt Au in ppp)  
● Rock sample, Au in ppp  
Green Creek Structure

**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

**21,691**

**GOLDBANK VENTURES LTD.**

**GREEN CREEK PROJECT**

